

DATA REVIEW MEMORANDUM

DATE: December 29, 2016

TO: Dean Tiebout, Project Manager, E & E, Chicago

FROM: Joanna Christopher, Chemist, E & E, Buffalo

SUBJ: Data Review – IDOT - I-74 - WO 046 (Contract 64C08) – Part 1

REFERENCE:

Project ID	Lab Work Order
IDOT - I-74 - WO 046	500-120663-1
IDOT - I-74 - WO 046	500-120748-1
IDOT - I-74 - WO 046	500-120882-1
IDOT - I-74 - WO 046	500-121005-1
IDOT - I-74 - WO 046	500-121121-1

I. SAMPLE IDENTIFICATION

For the sampling activities for the IDOT - I-74 - WO 046 (Contract 64C08) project, Ecology and Environment, Inc. (E & E) collected the samples listed on Table 1. The samples were analyzed for the methods listed below. Matrix spike/matrix spike duplicates (MS/MSD) were not designated in the field. Samples noted as MS/MSD on Table 1 are provided as batch quality control (QC) MS/MSD. All samples were sent to TestAmerica Laboratory – Chicago, IL for analysis. All other tables are included at the end of this memorandum.

Data were reviewed for field and laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits. Laboratory data qualifiers for compound identification and quantitation were accepted. Any additional data review qualifiers added are noted below and listed on the tables at the end of this memorandum. Definitions of all data qualifiers are given in the report.

Table 1 Sample Listing

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-120663-1	Solid	1314V3-25-B03 (0-8)	500-120663-1	11/28/2016	MS/MSD		None
500-120663-1	Solid	1314V3-25-B02 (0-6)	500-120663-10	11/28/2016			None
500-120663-1	Solid	1314V3-25-B02 (6-12)	500-120663-11	11/28/2016			None
500-120663-1	Solid	1314V3-25-B05 (0-6)	500-120663-12	11/28/2016			None
500-120663-1	Solid	1314V3-25-B05 (6-12)	500-120663-13	11/28/2016			None
500-120663-1	Solid	1314V3-25-B04 (0-6)	500-120663-2	11/28/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-120663-1	Solid	1314V3-25-B04 (6-12)	500-120663-3	11/28/2016			None
500-120663-1	Solid	1314V3-25-B06 (0-6)	500-120663-4	11/28/2016			None
500-120663-1	Solid	1314V3-25-B06 (6-12)	500-120663-5	11/28/2016			None
500-120663-1	Solid	1314V3-25-B07 (0-6)	500-120663-6	11/28/2016			None
500-120663-1	Solid	1314V3-25-B07 (6-12)	500-120663-7	11/28/2016			None
500-120663-1	Solid	1314V3-25-B01 (0-6)	500-120663-8	11/28/2016			None
500-120663-1	Solid	1314V3-25-B01 (6-12)	500-120663-9	11/28/2016			None
500-120748-1	Solid	1314V3-21-B02 (0-6)	500-120748-3	11/29/2016			None
500-120748-1	Solid	1314V3-21-B02 (0-6)D	500-120748-4	11/29/2016			None
500-120748-1	Solid	1314V3-21-B01 (0-5)	500-120748-5	11/29/2016			None
500-120748-1	Solid	1314V3-21-B01 (5-10)	500-120748-6	11/29/2016	MS/MSD		None
500-120882-1	Solid	1314V3-57-B03 (0-5)	500-120882-1	12/1/2016	MS/MSD		None
500-120882-1	Solid	1314V3-32-B08 (0-3)	500-120882-10	12/1/2016			None
500-120882-1	Solid	1314V3-32-B07 (0-3)	500-120882-11	12/1/2016			None
500-120882-1	Solid	1314V3-26-B01 (0-8)	500-120882-12	12/1/2016			None
500-120882-1	Solid	1314V3-26-B02 (0-8)	500-120882-13	12/1/2016			None
500-120882-1	Solid	1314V3-57-B02 (0-3)	500-120882-2	12/1/2016	MS/MSD		None
500-120882-1	Solid	1314V3-57-B01 (0-3)	500-120882-3	12/1/2016			None
500-120882-1	Solid	1314V3-56-B03 (0-3)	500-120882-4	12/1/2016			None
500-120882-1	Solid	1314V3-56-B02 (0-3)	500-120882-5	12/1/2016			None
500-120882-1	Solid	1314V3-56-B02 (0-3)D	500-120882-6	12/1/2016			None
500-120882-1	Solid	1314V3-56-B01 (0-3)	500-120882-7	12/1/2016			None
500-120882-1	Solid	1314V3-59-B01 (0-5)	500-120882-8	12/1/2016			None
500-120882-1	Solid	1314V3-59-B01 (5-10)	500-120882-9	12/1/2016			None
500-121005-1	Solid	1314V3-01-B11 (0-8)	500-121005-11	12/5/2016			None
500-121005-1	Solid	1314V3-01-B11 (8-15)	500-121005-12	12/5/2016			None
500-121121-1	Solid	1314V3-08-B01 (0-6)	500-121121-1	12/6/2016	MS/MSD		None
500-121121-1	Solid	1314V3-01-B04 (6-12)	500-121121-10	12/6/2016	MS/MSD		None
500-121121-1	Solid	1314V3-01-B05 (0-6)	500-121121-11	12/6/2016			None
500-121121-1	Solid	1314V3-01-B05 (6-12)	500-121121-12	12/6/2016			None
500-121121-1	Solid	1314V3-01-B06 (0-8)	500-121121-13	12/6/2016			None
500-121121-1	Solid	1314V3-01-B06 (8-15)	500-121121-14	12/6/2016			None
500-121121-1	Solid	1314V3-01-B06 (8-15)D	500-121121-15	12/6/2016			None
500-121121-1	Solid	1314V3-01-B07 (0-6)	500-121121-16	12/6/2016			None
500-121121-1	Solid	1314V3-01-B07 (6-12)	500-121121-17	12/6/2016			None
500-121121-1	Solid	1314V3-01-B08 (0-4)	500-121121-18	12/6/2016			None
500-121121-1	Solid	1314V3-01-B08 (4-9)	500-121121-19	12/6/2016			None
500-121121-1	Solid	1314V3-08-B01 (6-12)	500-121121-2	12/6/2016			None
500-121121-1	Solid	1314V3-04-B01 (0-6)	500-121121-20	12/6/2016			None
500-121121-1	Solid	1314V3-04-B01 (6-11)	500-121121-21	12/6/2016			None
500-121121-1	Water	1314V3-04-G01	500-121121-22	12/6/2016			None
500-121121-1	Solid	1314V3-01-B01 (0-6)	500-121121-3	12/6/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-121121-1	Solid	1314V3-01-B01 (6-11)	500-121121-4	12/6/2016			None
500-121121-1	Water	1314V3-01-G01	500-121121-5	12/6/2016			None
500-121121-1	Water	1314V3-00-TB01	500-121121-6	12/6/2016			None
500-121121-1	Solid	1314V3-01-B02 (0-8)	500-121121-7	12/6/2016			None
500-121121-1	Solid	1314V3-01-B03 (0-8)	500-121121-8	12/6/2016			None
500-121121-1	Solid	1314V3-01-B04 (0-6)	500-121121-9	12/6/2016			None

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-120663-1	Solid	EMoisture	Percent Moisture	13	SAMP
500-120663-1	Solid	SW6010B	Metals (ICP)	13	SAMP
500-120663-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	7	SAMP
500-120663-1	Solid	SW6010B_SPLP	Metals_SPLP	4	SAMP
500-120663-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	13	SAMP
500-120663-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	2	SAMP
500-120663-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	13	SAMP
500-120663-1	Solid	SW7470A_TCLP	Mercury_TCLP	13	SAMP
500-120663-1	Solid	SW7471B	Mercury (CVAA)	13	SAMP
500-120663-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	13	SAMP
500-120663-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	DL
500-120663-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	13	SAMP
500-120663-1	Solid	SW9045D	pH	13	SAMP
500-120748-1	Solid	EMoisture	Percent Moisture	4	SAMP
500-120748-1	Solid	SW6010B	Metals (ICP)	4	SAMP
500-120748-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	1	SAMP
500-120748-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-120748-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	4	SAMP
500-120748-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	1	SAMP
500-120748-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	4	SAMP
500-120748-1	Solid	SW7470A_TCLP	Mercury_TCLP	4	SAMP
500-120748-1	Solid	SW7471B	Mercury (CVAA)	4	SAMP
500-120748-1	Solid	SW8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatogr	4	SAMP
500-120748-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	4	SAMP
500-120748-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	4	SAMP
500-120748-1	Solid	SW9045D	pH	4	SAMP
500-120882-1	Solid	EMoisture	Percent Moisture	13	SAMP
500-120882-1	Solid	SW6010B	Metals (ICP)	13	SAMP
500-120882-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	8	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-120882-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-120882-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	13	SAMP
500-120882-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	13	SAMP
500-120882-1	Solid	SW7470A_TCLP	Mercury_TCLP	13	SAMP
500-120882-1	Solid	SW7471B	Mercury (CVAA)	13	SAMP
500-120882-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	13	SAMP
500-120882-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	13	SAMP
500-120882-1	Solid	SW9045D	pH	13	SAMP
500-121005-1	Solid	EMoisture	Percent Moisture	2	SAMP
500-121005-1	Solid	SW6010B	Metals (ICP)	2	SAMP
500-121005-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	1	SAMP
500-121005-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	2	SAMP
500-121005-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	2	SAMP
500-121005-1	Solid	SW7470A_TCLP	Mercury_TCLP	2	SAMP
500-121005-1	Solid	SW7471B	Mercury (CVAA)	2	SAMP
500-121005-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	2	SAMP
500-121005-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	SAMP
500-121005-1	Solid	SW9045D	pH	2	SAMP
500-121121-1	Solid	EMoisture	Percent Moisture	19	SAMP
500-121121-1	Solid	SW6010B	Metals (ICP)	19	SAMP
500-121121-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	3	SAMP
500-121121-1	Solid	SW6010B_SPLP	Metals_SPLP	12	SAMP
500-121121-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	19	SAMP
500-121121-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	1	SAMP
500-121121-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	19	SAMP
500-121121-1	Solid	SW7470A_TCLP	Mercury_TCLP	19	SAMP
500-121121-1	Solid	SW7471B	Mercury (CVAA)	19	SAMP
500-121121-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	19	SAMP
500-121121-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-121121-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	19	SAMP
500-121121-1	Solid	SW9045D	pH	19	SAMP
500-121121-1	Water	SW6020A	Metals (ICP/MS)	2	SAMP
500-121121-1	Water	SW7470A	Mercury	2	SAMP
500-121121-1	Water	SW8260B	VOC	3	SAMP
500-121121-1	Water	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	SAMP

II. SAMPLE PROCEDURES

All samples were collected as specified in the work plan and documented on the chain-of-custody (COC). Samples were analyzed as specified on the COC. Samples were packaged, shipped and received as specified in the work plan. All samples must be received cold ($4^{\circ}\pm 2^{\circ}\text{C}$) and in good condition as documented on the Cooler Receipt Forms.

REVIEW RESULTS:

All sample procedures were followed and the sample coolers were received at the appropriate temperature ($4^{\circ}\pm 2^{\circ}\text{C}$) and in good condition as documented on the Cooler Receipt Forms. The case narrative stated that the laboratory received a 16 oz jar for laboratory sample 121121-15 with an ID of 1314V3-01-B05 (8-15)D; however, the chain of custody listed 1314V3-01-B06 (8-15)D; the laboratory logged the sample in per the chain after consulting with the project manager. The case narrative stated that PCB analysis was requested by the project manager for samples 1314V3-21-B02 (0-6), 1314V3-21-B02 (0-6)D, 1314V3-21-B01 (0-5), and 1314V3-21-B01 (5-10), although it had not been listed on the chain of custody. Sample 1314V3-04-G01 was incorrectly listed on the COC as a solid sample; it was logged in correctly as a water sample by the laboratory.

III. LABORATORY DATA

1.0 HOLDING TIMES

Holding times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. Exceeding the holding time for a sample generally results in a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

REVIEW RESULTS:

All samples were analyzed within the project-specified holding time.

2.0 BLANKS

Laboratory and field blank samples are analyzed and evaluated to determine the existence and magnitude of possible contamination during the sampling and analysis process. As noted in Table 2 (if applicable), analyte concentrations in the blanks are generally below the

practical quantitation limit (PQL). If the analyte is present in the sample at similar trace levels, then the analyte is likely a common background contaminant from some phase of the sampling, extraction, or analytical procedure and associated low level sample concentrations are not considered to be site related. If the analyte concentration is above the PQL, then there is a potential contamination problem and sample results may be biased high or the data unusable.

REVIEW RESULTS:

Blanks were performed at the required frequency. Generally, for sample results less than five times the blank detection, if the sample result was less than the PQL, the MDL was elevated to the sample result; however, if the sample result was greater than the PQL, then the PQL was elevated to the sample result. If the sample result was a non-detect, no qualification was required.

For Method SW6010B, boron, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and sodium were detected in laboratory method blanks below the PQL; chromium was detected above the PQL in one laboratory method blank. For Method SW6010B_TCLP, boron and zinc were detected in laboratory method blanks below the PQL. For Method SW8260B, 2-hexanone was detected above the PQL in one laboratory method blank. Associated sample results were qualified as shown in Table 2A.

For Method SW6010B, the instrument blank for analytical batch 500-363473 at line 100 contained Iron greater than the reporting limit (RL); associated samples were not reanalyzed because they contained Iron greater than 10 times the amount found in the instrument blank. The data have been reported without qualification.

For Method SW8260B, no compounds were detected in the trip blank, sample 1314V3-00-TB01.

3.0 SURROGATE SPIKE RECOVERY

Laboratory performance for individual samples analyzed for organic compounds is established by means of surrogate spiking activities. Samples are spiked with surrogate compounds prior to preparation and analysis. Unusually low or high surrogate recovery values may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target compounds. Sample surrogate recoveries outside QC limits (if applicable) are presented in Table 3. No qualification was made to MS/MSD results for samples with surrogate recoveries outside QC limits.

REVIEW RESULTS:

Surrogate spikes were appropriately added to all field and QC samples. The following surrogate failures were noted for semi-volatile analysis by SW8270D: Samples 1314V3-08-B01 (0-6) (MS), 1314V3-25-B02 (6-12), and 1314V3-25-B06 (0-6) (DL) each had one acid and/or base/neutral surrogate outside of control limits. No qualification of the data was made.

4.0 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

The matrix spike and matrix spike duplicate (MS/MSD) analyses are intended to provide information about the effects that the sample matrix exerts on the digestion/extraction and measurement methodology. MS recovery values that do not meet laboratory QC criteria may indicate that sample analyte results are being attenuated in the analysis procedure. These results are presented in Table 4 (if applicable). The potential sample bias may be estimated by noting the degree to which the MS concentration was elevated or lowered in the spike analysis. However, this bias should serve only as approximations; sample-specific problems may be the cause of the discrepancy, particularly in soil samples. Recoveries of a post-digestion spike or a laboratory control sample (LCS) are used to verify that the analytical methodology is acceptable and that MS recoveries are due to matrix effects. An MSD analysis is performed to evaluate the precision of the sample results. Precision is measured as the relative percent difference (RPD) between analytical results for duplicate samples. The laboratory's failure to produce similar results for MSD samples may indicate that the samples were non-homogeneous (particularly in soil samples), or that method defects may exist in the laboratory's techniques.

REVIEW RESULTS:

The MS/MSD sample analyses were performed at the required frequency. The recovery and RPD results for MS/MSDs for project samples were within QC criteria established except as noted on Table 4 (batch MS/MSDs performed for other clients' samples were not included in the table).

If the spiking recovery was high and the analyte was not detected in the sample, no qualification of the data was made; however, if there was a positive detection in the parent sample, then the result was J qualified as estimated.

If the spiking recovery was low and the analyte was not detected in the parent, then the parent result was UJ qualified. If the analyte was detected in the parent sample, then the result was J qualified as estimated.

For laboratory replicate analyses that failed precision, the results in the parent sample were qualified J as estimated if the RPD did not meet the laboratory limit. No qualification was made on the analytes that exhibited poor precision with sample results that were less than 5X the PQL.

The MS and /or MSDs for several metals for Methods SW6010B and several semivolatile compounds for Method 8270D exhibited failing recoveries. 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, hexachlorocyclopentadiene, and pentachlorophenol exhibited 0% recovery in some of the MS/MSDs; however, these analytes are poor performing compounds in a multi-parameter spike and the associated sample results were qualified with UJ as estimated unless they were rejected for LCS failure and qualified with UR as rejected non-detect as noted in Section 5 (2,4-dinitrophenol). [Note: The two LCS failures for 2,4-dinitrophenol were for batches that were not associated with the MS/MSD samples.]

5.0 LABORATORY CONTROL SAMPLE ANALYSIS

The LCS is analyzed to monitor the efficiency of the digestion/extraction procedure and analytical instrument operation. The ability of the laboratory to successfully analyze an LCS demonstrates that there are no analytical problems related to the digestion/sample preparation procedures and/or instrument operations. The LCS results outside QC limits are presented in Table 5 (if applicable). Sporadic and marginal QC failures for multiple component methods do not indicate an analytical concern. If recoveries are high and the compounds are not detected in the samples, then no data qualification is required. All recoveries should be above 10% or the non-detect results flagged "UR" as rejected.

REVIEW RESULTS:

All LCS analyses were within control limits and performed at the required frequency except as noted on Table 5. 2,4-Nitrophenol recovered below control limits (0% recovery) for LCS 500-363273/2-A and LCS 500-363857/2-A by Method SW8270D; associated sample results were non-detect and were qualified with UR as rejected non-detect. Carbazole recovered above control limits (139% recovery) for LCS 500-363857/2-A by Method SW8270D; associated sample results were non-detect and were reported without qualification.

6.0 COMPOUND IDENTIFICATION AND QUANTITATION

Compound identities are assigned by comparing sample compound retention times to retention times from known (standard) compounds and identification of an acceptable mass spectrum. Compounds detected below PQLs in samples should be considered estimated and are qualified "J." The samples with compounds above the linear range were all re-analyzed at a higher dilution factor.

REVIEW RESULTS:

All compound identification and quantitation criteria were achieved as could be determined from the EDD. Samples were diluted to bring the target concentration within the calibration range or due to matrix effects as shown on Table 6. Generally, there was no impact to data usability. In some cases, elevated reporting limits were provided, which may be above regulatory limits.

For Method SW6020A, the continuing calibration verification (CCV) associated with batch 500-365046 recovered above the upper control limit for thallium as described in the case narrative; however, the low level CCV bracketing the sample concentrations recovered within control limits. Associated sample results were non-detects and were reported without qualification.

For Method SW6020A, as described in the case narrative, the internal standard (Tb) was used to report the element Thallium in batch 500-364154 due to the LCS being spiked with the trace digestion spike which contains Bismuth. Associated sample results were non-detects and were reported without qualification.

For Method SW8082A, as described in the case narrative, the following samples required a mercury clean-up via EPA Method 3660A to reduce matrix interferences caused by sulfur: 1314V3-21-B02 (0-6) (500-120748-3), 1314V3-21-B02 (0-6)D (500-120748-4) and 1314V3-21-B01 (0-5) (500-120748-5). The sample results were reported without qualification.

7.0 FIELD DUPLICATE SAMPLE RESULTS

Field duplicate samples were collected and analyzed as an indication of overall precision for both field and laboratory. Field duplicate results are summarized in Table 7 (if applicable). The results are expected to have more variability than laboratory duplicates, which measure only laboratory precision. It is expected also that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical field samples. The QC criteria used to assess field duplicate samples for this project was limits

of 70% RPD for soils and 40% RPD for waters, or twice the general laboratory duplicate criteria. If both compounds were below the laboratory PQL or one of the compounds was present as a non-detect, then the compounds are generally not qualified due to field duplicate precision. There are no guidelines regarding data qualification based on poor field duplicate precision. Professional judgment was used to determine whether or not to qualify results.

REVIEW RESULTS:

One field duplicate was collected per 17 soil samples. The RPD ratings are listed on Table 7 and were generally "Good". For the field duplicate sample pair for sample 1314V3-21-B02 (0-6), the result for lead by Method SW6010B_TCLP was qualified with J as estimated due to poor precision.

Table 2 - List of Positive Results for Blank Samples

Method	Sample ID	Samp Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B	MB 500-362833/1-A	MBLK	Boron	2.8	J	A	mg/Kg	0.7	5
SW6010B	MB 500-362833/1-A	MBLK	Chromium	0.502	J	A	mg/Kg	0.17	1
SW6010B	MB 500-362833/1-A	MBLK	Chromium	2.91		A	mg/Kg	0.17	1
SW6010B	MB 500-362833/1-A	MBLK	Iron	16.8	J	A	mg/Kg	7.7	20
SW6010B	MB 500-362833/1-A	MBLK	Magnesium	4.28	J	A	mg/Kg	4.1	10
SW6010B	MB 500-362833/1-A	MBLK	Manganese	0.22	J	A	mg/Kg	0.2	1
SW6010B	MB 500-362833/1-A	MBLK	Potassium	9.83	J	A	mg/Kg	8.2	50
SW6010B	MB 500-362833/1-A	MBLK	Sodium	20.6	J	A	mg/Kg	13	100
SW6010B	MB 500-363316/1-A	MBLK	Calcium	7.21	J	A	mg/Kg	6.4	20
SW6010B	MB 500-363316/1-A	MBLK	Chromium	0.8	J	A	mg/Kg	0.17	1
SW6010B	MB 500-363316/1-A	MBLK	Iron	8.21	J	A	mg/Kg	7.7	20
SW6010B	MB 500-363316/1-A	MBLK	Nickel	0.36	J	A	mg/Kg	0.27	1
SW6010B	MB 500-363940/1-A	MBLK	Chromium	0.637	J	A	mg/Kg	0.17	1
SW6010B	MB 500-363940/1-A	MBLK	Nickel	0.284	J	A	mg/Kg	0.27	1
SW6010B	MB 500-364230/1-A	MBLK	Chromium	0.302	J	A	mg/Kg	0.17	1
SW6010B	MB 500-364361/1-A	MBLK	Chromium	0.907	J	A	mg/Kg	0.17	1
SW6010B	MB 500-364361/1-A	MBLK	Iron	9.06	J	A	mg/Kg	7.7	20
SW6010B	MB 500-364512/1-A	MBLK	Calcium	10.1	J	A	mg/Kg	6.4	20
SW6010B	MB 500-364512/1-A	MBLK	Chromium	0.487	J	A	mg/Kg	0.17	1
SW6010B	MB 500-364512/1-A	MBLK	Magnesium	4.18	J	A	mg/Kg	4.1	10
SW6010B_TCLP	LB 500-363172/1-C	MBLK	Boron	0.0659	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-363729/1-D	MBLK	Zinc	0.105	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-364526/1-C	MBLK	Boron	0.07	J	A	mg/L	0.05	0.5
SW8260B	MB 500-363745/7	MBLK	2-Hexanone	0.00505		A	mg/Kg	0.0016	0.005

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	3.4	B	3.2	1314V3-25-B01 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	3.6	B	3	1314V3-25-B07 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	3.9	B	3.1	1314V3-25-B02 (6-12)	mg/Kg	U Flag	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	4.4	B	3.1	1314V3-25-B04 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	4.5	B	3.1	1314V3-25-B06 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	50	B	15	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	6.9	B	2.8	1314V3-25-B04 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	61	B	15	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	5.3	F1 B	2.9	1314V3-25-B03 (0-8)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	14	J B	15	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	2.2	J B	3	1314V3-25-B05 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	2.8	J B	3	1314V3-25-B07 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Boron	2.8	3	J B	3.2	1314V3-25-B02 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	12	B	0.56	1314V3-25-B04 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	12	B	0.59	1314V3-25-B07 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	14	B	0.6	1314V3-25-B07 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	15	B	0.62	1314V3-25-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	16	B	0.61	1314V3-25-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	17	B	0.64	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	18	B	0.62	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	19	B	0.62	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	19	B	0.63	1314V3-25-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	19	B	3	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	19	B	3	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	26	B	3.1	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Chromium	2.91	9.6	B	0.58	1314V3-25-B03 (0-8)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	12000	B	12	1314V3-25-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	12000	B	13	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	13000	B	12	1314V3-25-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	14000	B	12	1314V3-25-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	14000	B	12	1314V3-25-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	14000	B	12	1314V3-25-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	15000	B	13	1314V3-25-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	16000	B	12	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	17000	B	12	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	18000	B	11	1314V3-25-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	47000	B	61	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	61000	B	60	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Iron	16.8	61000	B	61	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	1600	B	5.6	1314V3-25-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	1800	B	30	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	2000	B	6.1	1314V3-25-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	2300	B	5.9	1314V3-25-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	2500	B	5.8	1314V3-25-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	2600	B	6.4	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	4700	B	6.2	1314V3-25-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	5000	B	6	1314V3-25-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	5900	B	6.2	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	6400	B	30	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	7500	B	6.3	1314V3-25-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	9300	B	6.2	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Magnesium	4.28	960	B	31	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	170	B	0.58	1314V3-25-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	190	B	0.64	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	250	B	0.6	1314V3-25-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	250	B	0.62	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	340	B	0.56	1314V3-25-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	400	B	0.59	1314V3-25-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	440	B	0.61	1314V3-25-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	440	B	0.63	1314V3-25-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	570	B	0.62	1314V3-25-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	610	B	0.62	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	680	B	3.1	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	840	B	3	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Manganese	0.22	870	B	3	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	1000	B	32	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	1100	B	31	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	1600	B	150	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	530	B	28	1314V3-25-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	610	B	150	1314V3-25-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	680	B	30	1314V3-25-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	690	B	30	1314V3-25-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	730	B	30	1314V3-25-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	750	B	31	1314V3-25-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	800	B	150	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	900	B	32	1314V3-25-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	990	B	31	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Potassium	9.83	710	B F1	29	1314V3-25-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	150	B	62	1314V3-25-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	190	B	64	1314V3-25-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	390	B	62	1314V3-25-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	460	B	300	1314V3-25-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	72	B	60	1314V3-25-B07 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	82	B	63	1314V3-25-B01 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	85	B	56	1314V3-25-B04 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	87	B	62	1314V3-25-B04 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	280	J B	300	1314V3-25-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	39	J B	61	1314V3-25-B05 (6-12)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	53	J B	59	1314V3-25-B07 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	84	J B	310	1314V3-25-B05 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-362833/1-A	Solid	Sodium	20.6	54	J F2 B	58	1314V3-25-B03 (0-8)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Calcium	7.21	10000	B	61	1314V3-21-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Calcium	7.21	2200	B	11	1314V3-21-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Calcium	7.21	6400	B	62	1314V3-21-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Calcium	7.21	9600	B	53	1314V3-21-B02 (0-6)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Chromium	0.8	11	B	0.57	1314V3-21-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Chromium	0.8	14	B	2.6	1314V3-21-B02 (0-6)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Chromium	0.8	14	B	3.1	1314V3-21-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Chromium	0.8	15	B	3.1	1314V3-21-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Iron	8.21	12000	B ^	11	1314V3-21-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Iron	8.21	39000	B ^	53	1314V3-21-B02 (0-6)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Iron	8.21	40000	B ^	61	1314V3-21-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-363316/1-A	Solid	Iron	8.21	48000	B ^	62	1314V3-21-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Nickel	0.36	12	B	0.57	1314V3-21-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Nickel	0.36	23	B	2.6	1314V3-21-B02 (0-6)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Nickel	0.36	24	B	3.1	1314V3-21-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363316/1-A	Solid	Nickel	0.36	24	B	3.1	1314V3-21-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	11	B	0.49	1314V3-57-B02 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	11	B	0.6	1314V3-26-B01 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	12	B	0.49	1314V3-56-B03 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	12	B	0.51	1314V3-56-B01 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	12	B	0.52	1314V3-59-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	12	B	0.55	1314V3-57-B03 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	12	B	0.56	1314V3-56-B02 (0-3)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	13	B	0.48	1314V3-56-B02 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	13	B	0.54	1314V3-32-B08 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	13	B	0.6	1314V3-26-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	14	B	0.51	1314V3-59-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	14	B	0.6	1314V3-57-B01 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Chromium	0.637	15	B	0.62	1314V3-32-B07 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	11	B	0.49	1314V3-56-B03 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	11	B	0.54	1314V3-32-B08 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.48	1314V3-56-B02 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.49	1314V3-57-B02 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.56	1314V3-56-B02 (0-3)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.6	1314V3-26-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.62	1314V3-32-B07 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	12	B	0.6	1314V3-26-B01 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	13	B	0.6	1314V3-57-B01 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	15	B	0.51	1314V3-59-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	16	B	0.51	1314V3-56-B01 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	9.8	B	0.52	1314V3-59-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-363940/1-A	Solid	Nickel	0.284	11	B F1	0.55	1314V3-57-B03 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	11	B	0.57	1314V3-01-B11 (8-15)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364361/1-A	Solid	Chromium	0.907	16	B	0.89	1314V3-04-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-364361/1-A	Solid	Iron	9.06	27000	B	18	1314V3-04-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	11000	B	12	1314V3-01-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	16000	B	11	1314V3-01-B06 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	19000	B	11	1314V3-01-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	2400	B	11	1314V3-08-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	2500	B	11	1314V3-01-B08 (4-9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	29000	B	12	1314V3-01-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	3200	B	12	1314V3-01-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	34000	B	12	1314V3-01-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	37000	B	12	1314V3-08-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	4000	B	13	1314V3-01-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	41000	B	11	1314V3-01-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	43000	B	12	1314V3-04-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	5800	B	12	1314V3-01-B06 (8-15)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	6400	B	12	1314V3-01-B06 (8-15)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	7400	B	12	1314V3-01-B08 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	7500	B	11	1314V3-01-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	8400	B	13	1314V3-01-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Calcium	10.1	9800	B	11	1314V3-01-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	10	B	0.56	1314V3-01-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	10	B	0.6	1314V3-08-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	11	B	0.55	1314V3-01-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	12	B	0.56	1314V3-01-B06 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	12	B	0.57	1314V3-08-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	12	B	0.58	1314V3-04-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	12	B	0.59	1314V3-01-B08 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	13	B	0.57	1314V3-01-B08 (4-9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	13	B	0.58	1314V3-01-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	13	B	0.59	1314V3-01-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	13	B	0.58	1314V3-01-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	14	B	0.6	1314V3-01-B06 (8-15)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	15	B	0.57	1314V3-01-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	15	B	0.59	1314V3-01-B06 (8-15)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	16	B	0.6	1314V3-01-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	16	B	0.63	1314V3-01-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	17	B	0.56	1314V3-01-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Chromium	0.487	8.6	B	0.65	1314V3-01-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	1200	B	5.7	1314V3-08-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	1900	B	5.9	1314V3-01-B08 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	2100	B	5.7	1314V3-01-B08 (4-9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	2300	B	5.6	1314V3-01-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	2300	B	5.8	1314V3-01-B07 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	2400	B	5.9	1314V3-01-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3000	B	6.3	1314V3-01-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3300	B	5.7	1314V3-01-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3400	B	5.9	1314V3-01-B06 (8-15)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3500	B	6	1314V3-01-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3700	B	5.6	1314V3-01-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	3700	B	6.5	1314V3-01-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	4000	B	6	1314V3-01-B06 (8-15)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	4800	B	5.6	1314V3-01-B06 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	5100	B	5.5	1314V3-01-B07 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	6000	B	5.8	1314V3-01-B03 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	8300	B	5.8	1314V3-04-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364512/1-A	Solid	Magnesium	4.18	1400	B F1	6	1314V3-08-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.05	J B	0.5	1314V3-25-B05 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.066	J B	0.5	1314V3-21-B01 (5-10)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.073	J B	0.5	1314V3-25-B05 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.087	J B	0.5	1314V3-25-B01 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.09	J B	0.5	1314V3-25-B06 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.09	J B	0.5	1314V3-25-B02 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.095	J B	0.5	1314V3-25-B07 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.13	J B	0.5	1314V3-25-B03 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.13	J B	0.5	1314V3-25-B02 (0-6)	mg/L	U Flag	mg/L

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.16	J B	0.5	1314V3-25-B07 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.17	J B	0.5	1314V3-25-B04 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.17	J B	0.5	1314V3-21-B01 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.24	J B	0.5	1314V3-21-B02 (0-6)D	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.26	J B	0.5	1314V3-25-B04 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.32	J B	0.5	1314V3-25-B01 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.35	J B	0.5	1314V3-21-B02 (0-6)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-363172/1-C	Solid	Boron	0.0659	0.36	J B	0.5	1314V3-25-B06 (0-6)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.022	J B	0.5	1314V3-56-B01 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.026	J B	0.5	1314V3-59-B01 (5-10)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.027	J B	0.5	1314V3-32-B08 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.028	J B	0.5	1314V3-32-B07 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.029	J B	0.5	1314V3-56-B02 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.04	J B	0.5	1314V3-57-B03 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.061	J B	0.5	1314V3-57-B02 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.075	J B	0.5	1314V3-57-B01 (0-3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-363729/1-D	Solid	Zinc	0.105	0.18	J B	0.5	1314V3-26-B01 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.05	J B	0.5	1314V3-01-B08 (4-9)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.052	J B	0.5	1314V3-01-B06 (8-15)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.06	J B	0.5	1314V3-01-B07 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.071	J B	0.5	1314V3-08-B01 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.073	J B	0.5	1314V3-01-B06 (8-15)D	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.11	J B	0.5	1314V3-01-B06 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.12	J B	0.5	1314V3-01-B08 (0-4)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.12	J B	0.5	1314V3-01-B04 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.13	J B	0.5	1314V3-01-B04 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.14	J B	0.5	1314V3-01-B07 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.14	J B	0.5	1314V3-01-B02 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.17	J B	0.5	1314V3-01-B05 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.19	J B	0.5	1314V3-01-B05 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.22	J B	0.5	1314V3-01-B01 (6-11)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.22	J B	0.5	1314V3-01-B03 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.22	J B	0.5	1314V3-04-B01 (0-6)	mg/L	U Flag	mg/L

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.27	J B	0.5	1314V3-01-B01 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.3	J B	0.5	1314V3-08-B01 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364526/1-C	Solid	Boron	0.07	0.43	J B	0.5	1314V3-04-B01 (6-11)	mg/L	Not Qualified	mg/L

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	1314V3-08-B01 (0-6)	MS	2-Fluorophenol	17	40	130	1	None – QC Sample	1
SW8270D	1314V3-25-B02 (6-12)	SAMP	2,4,6-Tribromophenol	17	25	130	1	None	1
SW8270D	1314V3-25-B06 (0-6)	DL	2,4,6-Tribromophenol	132	25	130	5	None -- Diluted Out	1

Table 4 - List MS/MSD Recoveries and RPDs Outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	% Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	1314V3-08-B01 (0-6)	MS	2,4-Dinitrophenol		3.22	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	2,4-Dinitrophenol		3.4	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MS	3,3'-Dichlorobenzidine		1.61	16	1	40	110	F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	3,3'-Dichlorobenzidine		1.7	14	1	40	110	F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MS	Benzo[g,h,i]perylene	0.095	1.61	37	1	55	134	F1	J Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	Benzo[g,h,i]perylene	0.095	1.7	33	1	55	134	F1	J Flag
SW8270D	1314V3-08-B01 (0-6)	MS	Bis(2-chloroethyl)ether		1.61	135	1	53	116	F1	None – High and ND
SW8270D	1314V3-08-B01 (0-6)	MS	Dibenz(a,h)anthracene	0.027	1.61	51	1	61	134	F1	J Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	Dibenz(a,h)anthracene	0.027	1.7	48	1	61	134	F1	J Flag
SW8270D	1314V3-08-B01 (0-6)	MS	Hexachlorocyclopentadiene		1.61	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	Hexachlorocyclopentadiene		1.7	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	Hexachloroethane		1.7	46	1	54	111	F1	UJ Flag
SW8270D	1314V3-08-B01 (0-6)	MS	Indeno[1,2,3-cd]pyrene	0.094	1.61	45	1	50	149	F1	J Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	Indeno[1,2,3-cd]pyrene	0.094	1.7	42	1	50	149	F1	J Flag
SW8270D	1314V3-25-B03 (0-8)	MS	2,4-Dinitrophenol		3.25	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	2,4-Dinitrophenol		3.17	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.25	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	4,6-Dinitro-2-methylphenol		3.17	0	1	10	110	U F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	% Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	1314V3-25-B03 (0-8)	MS	Benzo[g,h,i]perylene		1.62	48	1	55	134	F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	Benzo[g,h,i]perylene		1.59	47	1	55	134	F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	Bis(2-chloroethyl)ether		1.59	119	1	53	116	F1	None – High and ND
SW8270D	1314V3-25-B03 (0-8)	MS	Hexachlorocyclopentadiene		1.62	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	Hexachlorocyclopentadiene		1.59	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MS	Pentachlorophenol		3.25	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-25-B03 (0-8)	MSD	Pentachlorophenol		3.17	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-57-B02 (0-3)	MS	4-Nitroaniline		1.48	147	1	55	146	F1	None – High and ND
SW8270D	1314V3-57-B02 (0-3)	MS	Hexachlorocyclopentadiene		1.48	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-57-B02 (0-3)	MSD	Hexachlorocyclopentadiene		1.43	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-57-B02 (0-3)	MS	Pentachlorophenol		2.97	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-57-B02 (0-3)	MSD	Pentachlorophenol		2.85	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-57-B02 (0-3)	MS	Phenol		1.48	127	1	55	118	F1	None – High and ND
SW8270D	1314V3-57-B02 (0-3)	MSD	Phenol		1.43	121	1	55	118	F1	None – High and ND
SW6010B	1314V3-08-B01 (0-6)	MS	Antimony	0.9	30.5	25	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MSD	Antimony	0.9	30.7	24	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MS	Calcium	37000	611	-1068	1	75	125	4	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MSD	Calcium	37000	614	-22	1	75	125	4	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MS	Iron	13000	61.1	13642	1	75	125	4	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MSD	Iron	13000	61.4	3496	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MS	Lead	38	6.11	390	1	75	125	4	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MSD	Lead	38	6.14	285	1	75	125	4	None -- 4X
SW6010B	1314V3-08-B01 (0-6)	MSD	Magnesium	1400	614	136	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MS	Potassium	1200	611	164	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MSD	Potassium	1200	614	186	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MS	Zinc	100	30.5	319	1	75	125	F1	J Flag
SW6010B	1314V3-08-B01 (0-6)	MSD	Zinc	100	30.7	155	1	75	125	F1 F2	J Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Antimony		29.4	24	1	75	125	F1	UJ Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Antimony		28.2	22	1	75	125	F1	UJ Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Barium	120	113	63	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Boron	5.3	58.7	71	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Boron	5.3	56.5	64	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	% Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	1314V3-25-B03 (0-8)	MS	Calcium	6300	587	136	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MSD	Calcium	6300	565	142	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MS	Copper	13	14.7	72	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Iron	12000	58.7	835	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MSD	Iron	12000	56.5	5187	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MS	Lead	490	5.87	-7449	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MSD	Lead	490	5.65	-7856	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MS	Magnesium	2500	587	174	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MS	Manganese	170	29.4	73	1	75	125	4	None -- 4X
SW6010B	1314V3-25-B03 (0-8)	MS	Potassium	710	587	154	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Selenium	0.35	5.87	69	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Selenium	0.35	5.65	69	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Silver		2.94	71	1	75	125	F1	UJ Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Silver		2.82	71	1	75	125	F1	UJ Flag
SW6010B	1314V3-25-B03 (0-8)	MS	Zinc	110	29.4	71	1	75	125	F1	J Flag
SW6010B	1314V3-25-B03 (0-8)	MSD	Zinc	110	28.2	166	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Antimony	0.32	25.7	24	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Antimony	0.32	25.9	23	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Arsenic	5	5.15	54	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Arsenic	5	5.18	56	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Barium	73	103	67	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Barium	73	104	66	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Boron	3	51.5	64	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Boron	3	51.8	69	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Cadmium	0.22	2.57	69	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Cadmium	0.22	2.59	72	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Calcium	11000	515	-1218	1	75	125	4	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MSD	Calcium	11000	518	51	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MSD	Cobalt	5.3	25.9	74	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Copper	17	12.9	26	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Copper	17	12.9	48	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Iron	12000	51.5	4104	1	75	125	4	None -- 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	% Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	1314V3-57-B03 (0-5)	MSD	Iron	12000	51.8	192	1	75	125	4	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MS	Lead	14	5.15	24	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Lead	14	5.18	51	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Magnesium	6600	515	-528	1	75	125	4	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MSD	Magnesium	6600	518	-103	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MS	Manganese	360	25.7	-447	1	75	125	4	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MSD	Manganese	360	25.9	-386	1	75	125	4	None -- 4X
SW6010B	1314V3-57-B03 (0-5)	MS	Nickel	11	25.7	74	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Potassium	870	515	162	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Potassium	870	518	158	1	75	125	F1	J Flag
SW6010B	1314V3-57-B03 (0-5)	MS	Selenium		5.15	68	1	75	125	F1	UJ Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Selenium		5.18	71	1	75	125	F1	UJ Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Zinc	33	25.9	68	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	1314V3-08-B01 (0-6)	DUP	Antimony	32	20	None -- <5X PQL
SW6010B	1314V3-57-B03 (0-5)	DUP	Antimony	26	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Arsenic	46	20	None -- <5X PQL
SW6010B	1314V3-57-B03 (0-5)	DUP	Arsenic	33	20	J Flag
SW6010B	1314V3-25-B03 (0-8)	DUP	Barium	26	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Beryllium	70	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Boron	93	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Cadmium	92	20	None -- <5X PQL
SW6010B	1314V3-57-B03 (0-5)	DUP	Cadmium	21	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Calcium	22	20	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Calcium	79	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Cobalt	21	20	J Flag
SW6010B	1314V3-57-B03 (0-5)	DUP	Cobalt	23	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Copper	187	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Iron	56	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	MSD	Iron	34	20	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	1314V3-08-B01 (0-6)	DUP	Lead	44	20	J Flag
SW6010B	1314V3-25-B03 (0-8)	DUP	Lead	162	20	J Flag
SW6010B	1314V3-57-B03 (0-5)	MSD	Magnesium	44	20	J Flag
SW6010B	1314V3-57-B03 (0-5)	DUP	Manganese	59	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Nickel	34	20	J Flag
SW6010B	1314V3-25-B03 (0-8)	DUP	Selenium	24	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Sodium	70	20	None -- <5X PQL
SW6010B	1314V3-25-B03 (0-8)	MSD	Sodium	25	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	DUP	Thallium	33	20	None -- <5X PQL
SW6010B	1314V3-57-B03 (0-5)	DUP	Thallium	36	20	None -- <5X PQL
SW6010B	1314V3-08-B01 (0-6)	DUP	Zinc	109	20	J Flag
SW6010B	1314V3-08-B01 (0-6)	MSD	Zinc	29	20	J Flag
SW8270D	1314V3-08-B01 (0-6)	MSD	3 & 4 Methylphenol	36	30	None -- <5X PQL
SW8270D	1314V3-25-B03 (0-8)	MSD	Phenol	42	30	None -- <5X PQL

Table 5 - List LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	BatchID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW8270D	LCS 500-363273/2-A	2,4-Dinitrophenol	500-363273	0	10	110	2	UR Flag
SW8270D	LCS 500-363857/2-A	2,4-Dinitrophenol	500-363857	0	10	110	4	UR Flag
SW8270D	LCS 500-363857/2-A	Carbazole	500-363857	139	65	137	4	None – High and ND

Table 6 –Samples that were Re-analyzed

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
1314V3-01-B04 (0-6)	SW8270D	SAMP	Diluted to bring fluoranthene within the calibration curve.	5	1
1314V3-01-G01	SW6020A	SAMP	Diluted to bring boron within the calibration curve.	5	1
1314V3-04-G01	SW6020A	SAMP	Diluted to bring boron within the calibration curve.	2	1
1314V3-21-B01 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-21-B02 (0-6)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-21-B02 (0-6)D	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-25-B01 (0-6)	SW8270D	SAMP	Diluted to bring benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz(a,h)anthracene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene within the calibration curve.	5	9

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
1314V3-25-B01 (0-6)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-25-B05 (0-6)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-25-B06 (0-6)	SW8270D	SAMP	Diluted to bring benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, fluoranthene, and pyrene within the calibration curve.	5	6
1314V3-25-B06 (0-6)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-32-B08 (0-3)	SW7471B	SAMP	Diluted to bring mercury within the calibration curve.	50	1

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-01-B06 (8-15)	1314V3-01-B06 (8-15)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	17.4	17.8	2.3%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	82.6	82.2	0.5%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.2	A	0.33	ND	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.59	A	4.5	3.8	16.9%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.59	A	84	82	2.4%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.24	A	0.53	0.51	3.8%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.9	A	2.5	2.2	12.8%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.12	A	0.15	0.17	12.5%	Good	None
SW6010B	Calcium	mg/Kg	Solid	12	A	5800	6400	9.8%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.59	A	15	14	6.9%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.29	A	7.4	5.8	24.2%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.59	A	12	12	0.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	16000	14000	13.3%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.29	A	8.2	8.1	1.2%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.9	A	3400	4000	16.2%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.59	A	440	380	14.6%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.59	A	15	14	6.9%	Good	None
SW6010B	Potassium	mg/Kg	Solid	29	A	930	920	1.1%	Good	None
SW6010B	Sodium	mg/Kg	Solid	59	A	210	210	0.0%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.59	A	0.97	0.92	5.3%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.29	A	22	19	14.6%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	36	33	8.7%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.3	0.33	9.5%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-01-B06 (8-15)	1314V3-01-B06 (8-15)D	RPD	RPD Rating	Sample Qual
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.052	0.073	33.6%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.043	0.097	77.1%	Poor	None - <5X PQL
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.022	ND	NC	--	--
SW7471B	Mercury	mg/Kg	Solid	0.019	A	0.029	0.019	41.7%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.038	A	ND	0.0082	NC	--	--
SW8270D	Phenanthrene	mg/Kg	Solid	0.038	A	0.0056	0.0069	20.8%	Good	None
SW9045D	pH	SU	Solid	0.2	A	7.8	7.9	1.3%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-21-B02 (0-6)	1314V3-21-B02 (0-6)D	RPD	RPD Rating	Sample Qual
E Moisture	Percent Moisture	%	Solid	0.1	A	24.6	20.1	20.1%	Good	None
E Moisture	Percent Solids	%	Solid	0.1	A	75.4	79.9	5.8%	Good	None
SW6010B	Antimony	mg/Kg	Solid	6.1	A	4.2	2.9	36.6%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	3.1	A	7.9	6.6	17.9%	Good	None
SW6010B	Barium	mg/Kg	Solid	3.1	A	210	190	10.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	1.2	A	1.4	1.8	25.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	15	A	27	41	41.2%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.61	A	1.1	0.98	11.5%	Good	None
SW6010B	Calcium	mg/Kg	Solid	61	A	10000	9600	4.1%	Good	None
SW6010B	Chromium	mg/Kg	Solid	3.1	A	15	14	6.9%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	1.5	A	8.1	7.8	3.8%	Good	None
SW6010B	Copper	mg/Kg	Solid	3.1	A	52	41	23.7%	Good	None
SW6010B	Iron	mg/Kg	Solid	61	A	40000	39000	2.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	1.5	A	140	150	6.9%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	31	A	1800	1500	18.2%	Good	None
SW6010B	Manganese	mg/Kg	Solid	3.1	A	440	410	7.1%	Good	None
SW6010B	Nickel	mg/Kg	Solid	3.1	A	24	23	4.3%	Good	None
SW6010B	Potassium	mg/Kg	Solid	150	A	1000	980	2.0%	Good	None
SW6010B	Selenium	mg/Kg	Solid	3.1	A	2	1.9	5.1%	Good	None
SW6010B	Sodium	mg/Kg	Solid	310	A	900	790	13.0%	Good	None
SW6010B	Thallium	mg/Kg	Solid	3.1	A	2.8	2.5	11.3%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	1.5	A	27	25	7.7%	Good	None
SW6010B	Zinc	mg/Kg	Solid	6.1	A	240	250	4.1%	Good	None
SW6010B_SPLP	Lead	mg/L	Solid	0.0075	A	0.071	0.097	31.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-21-B02 (0-6)	1314V3-21-B02 (0-6)D	RPD	RPD Rating	Sample Qual
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.24	0.25	4.1%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.59	0.56	5.2%	Good	None
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0022	0.003	30.8%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.014	0.017	19.4%	Good	None
SW6010B_TCLP	Iron	mg/L	Solid	0.4	A	ND	0.33	NC	--	--
SW6010B_TCLP	Lead	mg/L	Solid	0.0075	A	0.079	0.0099	155.5%	Poor	J Flag
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	3.1	2.3	29.6%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.012	0.017	34.5%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.21	0.43	68.8%	Good	None
SW6020A_SPLP	Antimony	mg/L	Solid	0.006	A	0.0063	NA	NC	--	--
SW6020A_TCLP	Antimony	mg/L	Solid	0.006	A	0.0098	ND	NC	--	--
SW7471B	Mercury	mg/Kg	Solid	0.02	A	0.056	0.075	29.0%	Good	None
SW8260B	2-Butanone (MEK)	mg/Kg	Solid	0.0051	A	0.0076	0.0088	14.6%	Good	None
SW8260B	Acetone	mg/Kg	Solid	0.021	A	0.05	0.042	17.4%	Good	None
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.086	A	0.19	0.13	37.5%	Good	None
SW8270D	Acenaphthene	mg/Kg	Solid	0.043	A	0.012	0.026	73.7%	Poor	None - <5X PQL
SW8270D	Acenaphthylene	mg/Kg	Solid	0.043	A	0.13	0.13	0.0%	Good	None
SW8270D	Anthracene	mg/Kg	Solid	0.043	A	0.1	0.15	40.0%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.043	A	0.28	0.43	42.3%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.043	A	0.36	0.5	32.6%	Good	None
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.043	A	0.61	0.8	27.0%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.043	A	0.089	0.13	37.4%	Good	None
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.043	A	0.2	0.27	29.8%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.043	A	0.31	0.45	36.8%	Good	None
SW8270D	Dibenz(a,h)anthracene	mg/Kg	Solid	0.043	A	0.046	0.057	21.4%	Good	None
SW8270D	Dibenzofuran	mg/Kg	Solid	0.22	A	0.078	0.054	36.4%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.043	A	0.46	0.77	50.4%	Good	None
SW8270D	Fluorene	mg/Kg	Solid	0.043	A	0.012	0.025	70.3%	Poor	None - <5X PQL
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.043	A	0.11	0.14	24.0%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.043	A	0.11	0.071	43.1%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.043	A	0.37	0.49	27.9%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.043	A	0.43	0.75	54.2%	Good	None
SW9045D	pH	SU	Solid	0.2	A	7.7	7.7	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-56-B02 (0-3)	1314V3-56-B02 (0-3)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	16.5	16.1	2.5%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	83.5	83.9	0.5%	Good	None
SW6010B	Antimony	mg/Kg	Solid	0.96	A	0.28	0.25	11.3%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.48	A	5.1	4.6	10.3%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.48	A	63	62	1.6%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.19	A	0.49	0.48	2.1%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.4	A	2.7	2.6	3.8%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.096	A	0.17	0.11	42.9%	Good	None
SW6010B	Calcium	mg/Kg	Solid	9.6	A	5200	5200	0.0%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.48	A	13	12	8.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.24	A	6.1	5.3	14.0%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.48	A	10	9.7	3.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	9.6	A	14000	13000	7.4%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.24	A	9.4	9.8	4.2%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	4.8	A	2600	2700	3.8%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.48	A	400	370	7.8%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.48	A	12	12	0.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	24	A	850	800	6.1%	Good	None
SW6010B	Sodium	mg/Kg	Solid	48	A	1300	1300	0.0%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.48	A	0.82	0.72	13.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.24	A	21	20	4.9%	Good	None
SW6010B	Zinc	mg/Kg	Solid	0.96	A	28	26	7.4%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.81	0.59	31.4%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.58	0.56	3.5%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.079	0.075	5.2%	Good	None
SW6010B_TCLP	Iron	mg/L	Solid	0.4	A	ND	0.31	NC	--	--
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.29	0.25	14.8%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.024	0.019	23.3%	Good	None
SW8270D	Anthracene	mg/Kg	Solid	0.039	A	ND	0.013	NC	--	--
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.039	A	0.01	0.048	131.0%	Poor	None - <5X PQL
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.039	A	0.013	0.052	120.0%	Poor	None - <5X PQL
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.039	A	0.026	0.071	92.8%	Poor	None - <5X PQL
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.039	A	ND	0.02	NC	--	--
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.039	A	ND	0.027	NC	--	--
SW8270D	Chrysene	mg/Kg	Solid	0.039	A	0.012	0.047	118.6%	Poor	None - <5X PQL

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-56-B02 (0-3)	1314V3-56-B02 (0-3)D	RPD	RPD Rating	Sample Qual
SW8270D	Fluoranthene	mg/Kg	Solid	0.039	A	0.017	0.11	146.5%	Poor	None - <5X PQL
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.039	A	0.013	0.026	66.7%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.039	A	ND	0.056	NC	--	--
SW8270D	Pyrene	mg/Kg	Solid	0.039	A	0.016	0.082	134.7%	Poor	None - <5X PQL
SW9045D	pH	SU	Solid	0.2	A	8.9	9.1	2.2%	Good	None

DATA REVIEW MEMORANDUM

DATE: January 9, 2017

TO: Dean Tiebout, Project Manager, E & E, Chicago

FROM: Joanna Christopher, Chemist, E & E, Buffalo

SUBJ: Data Review – IDOT - I-74 - WO 046 (Contract 64C08) – Part 2

REFERENCE:

Project ID	Lab Work Order
IDOT - I-74 - WO 046	500-121005-1
IDOT - I-74 - WO 046	500-121163-1
IDOT - I-74 - WO 046	500-121261-1
IDOT - I-74 - WO 046	500-121303-1
IDOT - I-74 - WO 046	500-121429-1
IDOT - I-74 - WO 046	500-121504-1
IDOT - I-74 - WO 046	500-121505-1
IDOT - I-74 - WO 046	500-121566-1
IDOT - I-74 - WO 046	500-121567-1

I. SAMPLE IDENTIFICATION

For the sampling activities for the IDOT - I-74 - WO 046 (Contract 64C08) project, Ecology and Environment, Inc. (E & E) collected the samples listed on Table 1. The samples were analyzed for the methods listed below. Matrix spike/matrix spike duplicates (MS/MSD) were not designated in the field. Samples noted as MS/MSD on Table 1 are provided as batch quality control (QC) MS/MSD. All samples were sent to TestAmerica Laboratory – Chicago, IL for analysis. All other tables are included at the end of this memorandum.

Data were reviewed for field and laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits. Laboratory data qualifiers for compound identification and quantitation were accepted. Any additional data review qualifiers added are noted below and listed on the tables at the end of this memorandum. Definitions of all data qualifiers are given in the report.

Table 1 Sample Listing

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-121005-1	Solid	1314V3-60-B01 (0-6)	500-121005-1	12/5/2016	MS/MSD		None
500-121005-1	Solid	1314V3-60-B02 (0-7)	500-121005-10	12/5/2016			None
500-121005-1	Solid	1314V3-60-B01 (6-11)	500-121005-2	12/5/2016			None
500-121005-1	Solid	1314V3-60-B06 (0-6)	500-121005-3	12/5/2016	MS/MSD		None
500-121005-1	Solid	1314V3-60-B06 (6-12)	500-121005-4	12/5/2016			None
500-121005-1	Solid	1314V3-60-B05 (0-6)	500-121005-5	12/5/2016			None
500-121005-1	Solid	1314V3-60-B05 (6-12)	500-121005-6	12/5/2016			None
500-121005-1	Solid	1314V3-60-B04 (0-5)	500-121005-7	12/5/2016			None
500-121005-1	Solid	1314V3-60-B03 (0-4)	500-121005-8	12/5/2016			None
500-121005-1	Solid	1314V3-60-B03 (4-9)	500-121005-9	12/5/2016			None
500-121163-1	Solid	1314V3-01-B10 (0-6)	500-121163-1	12/7/2016			None
500-121163-1	Solid	1314V3-07-B02 (0-5)	500-121163-10	12/7/2016			None
500-121163-1	Solid	1314V3-07-B03 (0-5.5)	500-121163-11	12/7/2016			None
500-121163-1	Solid	1314V3-07-B04 (0-5)	500-121163-12	12/7/2016			None
500-121163-1	Solid	1314V3-07-B04 (5-11)	500-121163-13	12/7/2016	MS/MSD		None
500-121163-1	Solid	1314V3-06-B10 (0-6)	500-121163-2	12/7/2016	MS/MSD		None
500-121163-1	Solid	1314V3-06-B10 (6-11)	500-121163-3	12/7/2016			None
500-121163-1	Solid	1314V3-06-B11 (0-6)	500-121163-4	12/7/2016			None
500-121163-1	Solid	1314V3-06-B11 (6-10.7)	500-121163-5	12/7/2016			None
500-121163-1	Water	1314V3-06-G10	500-121163-6	12/7/2016			None
500-121163-1	Water	1314V3-00-TB02	500-121163-7	12/7/2016			None
500-121163-1	Solid	1314V3-07-B01 (0-6)	500-121163-8	12/7/2016			None
500-121163-1	Water	1314V3-07-G01	500-121163-9	12/7/2016			None
500-121261-1	Solid	1314V3-02-B02 (0-6)	500-121261-10	12/8/2016			None
500-121261-1	Solid	1314V3-02-B02 (6-12)	500-121261-11	12/8/2016			None
500-121261-1	Solid	1314V3-02-B02 (6-12)D	500-121261-12	12/8/2016			None
500-121261-1	Solid	1314V3-06-B01 (0-8)	500-121261-13	12/8/2016	MS/MSD		None
500-121261-1	Solid	1314V3-06-B02 (0-8)	500-121261-14	12/8/2016			None
500-121261-1	Solid	1314V3-06-B03 (0-4)	500-121261-15	12/8/2016			None
500-121261-1	Solid	1314V3-11-B03 (0-1)	500-121261-16	12/8/2016			None
500-121261-1	Solid	1314V3-11-B03 (0-1)D	500-121261-17	12/8/2016			None
500-121261-1	Solid	1314V3-11-B02 (0-1)	500-121261-18	12/8/2016			None
500-121261-1	Solid	1314V3-11-B01 (0-1)	500-121261-19	12/8/2016	MS/MSD		None
500-121261-1	Solid	1314V3-02-B01 (0-5)	500-121261-5	12/8/2016			None
500-121261-1	Solid	1314V3-02-B01 (5-10)	500-121261-6	12/8/2016			None
500-121261-1	Water	1314V3-02-G01	500-121261-7	12/8/2016			None
500-121261-1	Water	1314V3-02-G01D	500-121261-8	12/8/2016			None
500-121261-1	Water	1314V3-00-TB03	500-121261-9	12/8/2016			None
500-121303-1	Solid	1314V3-05-B02 (0-6)	500-121303-1	12/9/2016	MS/MSD		None
500-121303-1	Solid	1314V3-24-B05 (0-5)	500-121303-10	12/9/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-121303-1	Solid	1314V3-24-B05 (5-10)	500-121303-11	12/9/2016			None
500-121303-1	Solid	1314V3-24-B07 (0-5)	500-121303-12	12/9/2016			None
500-121303-1	Solid	1314V3-24-B08 (0-8)	500-121303-13	12/9/2016	MS/MSD		None
500-121303-1	Solid	1314V3-05-B02 (6-10.6)	500-121303-2	12/9/2016	MS/MSD		None
500-121303-1	Solid	1314V3-05-B03 (0-5.9)	500-121303-3	12/9/2016			None
500-121303-1	Solid	1314V3-05-B01 (0-5)	500-121303-4	12/9/2016			None
500-121303-1	Solid	1314V3-17-B01 (0-7)	500-121303-5	12/9/2016			None
500-121303-1	Solid	1314V3-17-B02 (0-7)	500-121303-6	12/9/2016			None
500-121303-1	Solid	1314V3-17-B03 (0-7)	500-121303-7	12/9/2016			None
500-121303-1	Solid	1314V3-17-B03 (0-7)D	500-121303-8	12/9/2016	MS/MSD		None
500-121303-1	Solid	1314V3-24-B06 (0-4)	500-121303-9	12/9/2016			None
500-121429-1	Solid	1314V3-24-B09 (0-4)	500-121429-1	12/13/2016	MS/MSD		None
500-121429-1	Solid	1314V3-24-B02 (5-10)	500-121429-10	12/13/2016			None
500-121429-1	Solid	1314V3-06-B04 (0-5.2)	500-121429-11	12/13/2016	MS/MSD		None
500-121429-1	Solid	1314V3-06-B09 (0-2)	500-121429-12	12/13/2016			None
500-121429-1	Solid	1314V3-06-B05 (0-8)	500-121429-13	12/13/2016			None
500-121429-1	Solid	1314V3-06-B06 (0-4)	500-121429-14	12/13/2016			None
500-121429-1	Solid	1314V3-06-B08 (0-5)	500-121429-15	12/13/2016			None
500-121429-1	Solid	1314V3-06-B08 (5-10)	500-121429-16	12/13/2016			None
500-121429-1	Solid	1314V3-06-B07 (0-4.3)	500-121429-17	12/13/2016	MS/MSD		None
500-121429-1	Solid	1314V3-24-B10 (0-5)	500-121429-2	12/13/2016			None
500-121429-1	Solid	1314V3-24-B01 (0-5.8)	500-121429-3	12/13/2016			None
500-121429-1	Solid	1314V3-24-B04 (0-5)	500-121429-4	12/13/2016			None
500-121429-1	Solid	1314V3-24-B04 (5-10)	500-121429-5	12/13/2016			None
500-121429-1	Solid	1314V3-24-B04 (5-10)D	500-121429-6	12/13/2016			None
500-121429-1	Solid	1314V3-24-B03 (0-5)	500-121429-7	12/13/2016			None
500-121429-1	Solid	1314V3-24-B03 (5-10)	500-121429-8	12/13/2016			None
500-121429-1	Solid	1314V3-24-B02 (0-5)	500-121429-9	12/13/2016			None
500-121504-1	Solid	1314V3-24-B11 (0-6)	500-121504-1	12/14/2016	MS/MSD		None
500-121504-1	Solid	1314V3-01-B09 (6-11.6)	500-121504-10	12/14/2016			None
500-121504-1	Solid	1314V3-18-B06 (0-6)	500-121504-11	12/14/2016			None
500-121504-1	Solid	1314V3-18-B06 (6-12)	500-121504-12	12/14/2016			None
500-121504-1	Solid	1314V3-18-B06 (12-17)	500-121504-13	12/14/2016			None
500-121504-1	Solid	1314V3-18-B01 (0-6)	500-121504-14	12/14/2016			None
500-121504-1	Solid	1314V3-18-B01 (6-12)	500-121504-15	12/14/2016			None
500-121504-1	Solid	1314V3-18-B01 (12-18)	500-121504-16	12/14/2016			None
500-121504-1	Solid	1314V3-18-B05 (0-8)	500-121504-17	12/14/2016			None
500-121504-1	Solid	1314V3-18-B05 (8-12)	500-121504-18	12/14/2016			None
500-121504-1	Solid	1314V3-18-B03 (0-6)	500-121504-19	12/14/2016			None
500-121504-1	Solid	1314V3-24-B11 (6-12)	500-121504-2	12/14/2016			None
500-121504-1	Solid	1314V3-18-B03 (6-12)	500-121504-20	12/14/2016	MS/MSD		None
500-121504-1	Solid	1314V3-24-B14 (0-6)	500-121504-3	12/14/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-121504-1	Solid	1314V3-24-B14 (6-12)	500-121504-4	12/14/2016			None
500-121504-1	Solid	1314V3-24-B12 (0-6)	500-121504-5	12/14/2016			None
500-121504-1	Solid	1314V3-24-B12 (6-12)	500-121504-6	12/14/2016			None
500-121504-1	Solid	1314V3-24-B13 (0-6)	500-121504-7	12/14/2016			None
500-121504-1	Solid	1314V3-24-B13 (6-12)	500-121504-8	12/14/2016			None
500-121504-1	Solid	1314V3-01-B09 (0-6)	500-121504-9	12/14/2016			None
500-121505-1	Solid	1314V3-18-B02 (0-7)	500-121505-1	12/14/2016	MS/MSD		None
500-121505-1	Solid	1314V3-18-B02 (0-7)D	500-121505-2	12/14/2016			None
500-121505-1	Solid	1314V3-18-B02 (7-13)	500-121505-3	12/14/2016			None
500-121505-1	Solid	1314V3-18-B07 (0-8)	500-121505-4	12/14/2016			None
500-121505-1	Solid	1314V3-18-B04 (0-5.3)	500-121505-5	12/14/2016			None
500-121505-1	Solid	1314V3-18-B08 (0-4.4)	500-121505-6	12/14/2016			None
500-121505-1	Solid	1314V3-18-B09 (0-8)	500-121505-7	12/14/2016			None
500-121566-1	Solid	1314V3-33-B02 (0-5)	500-121566-1	12/15/2016	MS/MSD		None
500-121566-1	Solid	1314V3-33-B05 (6-12)	500-121566-10	12/15/2016			None
500-121566-1	Solid	1314V3-33-B04 (0-6)	500-121566-11	12/15/2016			None
500-121566-1	Solid	1314V3-33-B04 (6-12)	500-121566-12	12/15/2016			None
500-121566-1	Solid	1314V3-33-B06 (0-6)	500-121566-13	12/15/2016			None
500-121566-1	Solid	1314V3-33-B06 (6-12)	500-121566-14	12/15/2016	MS/MSD		None
500-121566-1	Solid	1314V3-33-B02 (5-9.4)	500-121566-2	12/15/2016			None
500-121566-1	Solid	1314V3-33-B07 (0-8)	500-121566-3	12/15/2016			None
500-121566-1	Solid	1314V3-33-B07 (0-8)D	500-121566-4	12/15/2016			None
500-121566-1	Solid	1314V3-33-B01 (0-6)	500-121566-5	12/15/2016			None
500-121566-1	Solid	1314V3-33-B01 (6-12)	500-121566-6	12/15/2016			None
500-121566-1	Solid	1314V3-33-B03 (0-6)	500-121566-7	12/15/2016			None
500-121566-1	Solid	1314V3-33-B03 (6-12)	500-121566-8	12/15/2016			None
500-121566-1	Solid	1314V3-33-B05 (0-6)	500-121566-9	12/15/2016			None
500-121567-1	Solid	1314V3-32-B06 (0-3)	500-121567-1	12/15/2016	MS/MSD		None
500-121567-1	Solid	1314V3-32-B02 (6-12)	500-121567-10	12/15/2016	MS/MSD		None
500-121567-1	Solid	1314V3-32-B05 (0-3)	500-121567-2	12/15/2016			None
500-121567-1	Solid	1314V3-32-B04 (0-6)	500-121567-3	12/15/2016			None
500-121567-1	Solid	1314V3-32-B04 (6-12)	500-121567-4	12/15/2016			None
500-121567-1	Solid	1314V3-32-B01 (0-6)	500-121567-5	12/15/2016			None
500-121567-1	Solid	1314V3-32-B01 (6-12)	500-121567-6	12/15/2016			None
500-121567-1	Solid	1314V3-32-B03 (0-6)	500-121567-7	12/15/2016			None
500-121567-1	Solid	1314V3-32-B03 (6-12)	500-121567-8	12/15/2016			None
500-121567-1	Solid	1314V3-32-B02 (0-6)	500-121567-9	12/15/2016			None

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-121005-1	Solid	EMoisture	Percent Moisture	10	SAMP
500-121005-1	Solid	SW6010B	Metals (ICP)	10	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-121005-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	4	SAMP
500-121005-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-121005-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	10	SAMP
500-121005-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	10	SAMP
500-121005-1	Solid	SW7470A_TCLP	Mercury_TCLP	10	SAMP
500-121005-1	Solid	SW7471B	Mercury (CVAA)	10	SAMP
500-121005-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	10	SAMP
500-121005-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-121005-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	10	SAMP
500-121005-1	Solid	SW9045D	pH	10	SAMP
500-121163-1	Solid	EMoisture	Percent Moisture	10	SAMP
500-121163-1	Solid	SW6010B	Metals (ICP)	10	SAMP
500-121163-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	6	SAMP
500-121163-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-121163-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	10	SAMP
500-121163-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	10	SAMP
500-121163-1	Solid	SW7470A_TCLP	Mercury_TCLP	10	SAMP
500-121163-1	Solid	SW7471B	Mercury (CVAA)	10	SAMP
500-121163-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	10	SAMP
500-121163-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	DL
500-121163-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	10	SAMP
500-121163-1	Solid	SW9045D	pH	10	SAMP
500-121163-1	Water	SW6020A	Metals (ICP/MS)	2	SAMP
500-121163-1	Water	SW7470A	Mercury	2	SAMP
500-121163-1	Water	SW8260B	VOC	3	SAMP
500-121163-1	Water	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	SAMP
500-121261-1	Solid	EMoisture	Percent Moisture	12	SAMP
500-121261-1	Solid	SW6010B	Metals (ICP)	12	SAMP
500-121261-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	7	SAMP
500-121261-1	Solid	SW6010B_SPLP	Metals_SPLP	4	SAMP
500-121261-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	12	SAMP
500-121261-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	12	SAMP
500-121261-1	Solid	SW7470A_TCLP	Mercury_TCLP	12	SAMP
500-121261-1	Solid	SW7471B	Mercury (CVAA)	12	SAMP
500-121261-1	Solid	SW8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatogr	1	SAMP
500-121261-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	12	SAMP
500-121261-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-121261-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	12	SAMP
500-121261-1	Solid	SW9045D	pH	12	SAMP
500-121261-1	Water	SW6020A	Metals (ICP/MS)	2	SAMP
500-121261-1	Water	SW7470A	Mercury	2	SAMP
500-121261-1	Water	SW8260B	VOC	3	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-121261-1	Water	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	SAMP
500-121303-1	Solid	EMoisture	Percent Moisture	13	SAMP
500-121303-1	Solid	SW6010B	Metals (ICP)	13	SAMP
500-121303-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	7	SAMP
500-121303-1	Solid	SW6010B_SPLP	Metals_SPLP	4	SAMP
500-121303-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	13	SAMP
500-121303-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	1	SAMP
500-121303-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	13	SAMP
500-121303-1	Solid	SW7470A_TCLP	Mercury_TCLP	13	SAMP
500-121303-1	Solid	SW7471B	Mercury (CVAA)	13	SAMP
500-121303-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	13	SAMP
500-121303-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	13	SAMP
500-121303-1	Solid	SW9045D	pH	13	SAMP
500-121429-1	Solid	EMoisture	Percent Moisture	17	SAMP
500-121429-1	Solid	SW6010B	Metals (ICP)	17	SAMP
500-121429-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	10	SAMP
500-121429-1	Solid	SW6010B_SPLP	Metals_SPLP	7	SAMP
500-121429-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	17	SAMP
500-121429-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	2	SAMP
500-121429-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	17	SAMP
500-121429-1	Solid	SW7470A_TCLP	Mercury_TCLP	17	SAMP
500-121429-1	Solid	SW7471B	Mercury (CVAA)	17	SAMP
500-121429-1	Solid	SW8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatogr	2	SAMP
500-121429-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	17	SAMP
500-121429-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	3	DL
500-121429-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	17	SAMP
500-121429-1	Solid	SW9045D	pH	17	SAMP
500-121504-1	Solid	EMoisture	Percent Moisture	20	SAMP
500-121504-1	Solid	SW6010B	Metals (ICP)	20	SAMP
500-121504-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	12	SAMP
500-121504-1	Solid	SW6010B_SPLP	Metals_SPLP	7	SAMP
500-121504-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	20	SAMP
500-121504-1	Solid	SW6020A_SPLP	Metals (ICP/MS)_SPLP	2	SAMP
500-121504-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	20	SAMP
500-121504-1	Solid	SW7470A_TCLP	Mercury_TCLP	20	SAMP
500-121504-1	Solid	SW7471B	Mercury (CVAA)	20	SAMP
500-121504-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	20	SAMP
500-121504-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	20	SAMP
500-121504-1	Solid	SW9045D	pH	20	SAMP
500-121505-1	Solid	EMoisture	Percent Moisture	7	SAMP
500-121505-1	Solid	SW6010B	Metals (ICP)	7	SAMP
500-121505-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	6	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-121505-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-121505-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	7	SAMP
500-121505-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	7	SAMP
500-121505-1	Solid	SW7470A_TCLP	Mercury_TCLP	7	SAMP
500-121505-1	Solid	SW7471B	Mercury (CVAA)	7	SAMP
500-121505-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	7	SAMP
500-121505-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	7	SAMP
500-121505-1	Solid	SW9045D	pH	7	SAMP
500-121566-1	Solid	EMoisture	Percent Moisture	14	SAMP
500-121566-1	Solid	SW6010B	Metals (ICP)	14	SAMP
500-121566-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	9	SAMP
500-121566-1	Solid	SW6010B_SPLP	Metals_SPLP	3	SAMP
500-121566-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	14	SAMP
500-121566-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	14	SAMP
500-121566-1	Solid	SW7470A_TCLP	Mercury_TCLP	14	SAMP
500-121566-1	Solid	SW7471B	Mercury (CVAA)	14	SAMP
500-121566-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	14	SAMP
500-121566-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-121566-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	14	SAMP
500-121566-1	Solid	SW9045D	pH	14	SAMP
500-121567-1	Solid	EMoisture	Percent Moisture	10	SAMP
500-121567-1	Solid	SW6010B	Metals (ICP)	10	SAMP
500-121567-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	9	SAMP
500-121567-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	10	SAMP
500-121567-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	10	SAMP
500-121567-1	Solid	SW7470A_TCLP	Mercury_TCLP	10	SAMP
500-121567-1	Solid	SW7471B	Mercury (CVAA)	10	SAMP
500-121567-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	10	SAMP
500-121567-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	10	SAMP
500-121567-1	Solid	SW9045D	pH	10	SAMP

II. SAMPLE PROCEDURES

All samples were collected as specified in the work plan and documented on the chain-of-custody (COC). Samples were analyzed as specified on the COC. Samples were packaged, shipped and received as specified in the work plan. All samples must be received cold (4° +/- 2°C) and in good condition as documented on the Cooler Receipt Forms.

REVIEW RESULTS:

All sample procedures were followed and the sample coolers were received at the appropriate temperature ($4^{\circ}\pm 2^{\circ}\text{C}$) and in good condition as documented on the Cooler Receipt Forms. Sample bottles for laboratory samples 121504-5 and -6 with an ID prefix of 1314V3-24-B12 [1314V3-24-B12 (0-6) and 1314V3-24-B12 (6-12)] were received; however, the chain of custody listed the ID prefix as 1314V3-24-B14. Samples were logged in per sample bottle labels.

III. LABORATORY DATA

1.0 HOLDING TIMES

Holding times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. Exceeding the holding time for a sample generally results in a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

REVIEW RESULTS:

All samples were analyzed within the project-specified holding time.

2.0 BLANKS

Laboratory and field blank samples are analyzed and evaluated to determine the existence and magnitude of possible contamination during the sampling and analysis process. As noted in Table 2 (if applicable), analyte concentrations in the blanks are generally below the practical quantitation limit (PQL). If the analyte is present in the sample at similar trace levels, then the analyte is likely a common background contaminant from some phase of the sampling, extraction, or analytical procedure and associated low level sample concentrations are not considered to be site related. If the analyte concentration is above the PQL, then there is a potential contamination problem and sample results may be biased high or the data unusable.

REVIEW RESULTS:

Blanks were performed at the required frequency. Generally, for sample results less than five times the blank detection, if the sample result was less than the PQL, the MDL was elevated to the sample result; however, if the sample result was greater than the PQL, then the PQL was elevated to the sample result. If the sample result was a non-detect, no qualification was required.

For Method SW6010B, cadmium, calcium, chromium, iron, magnesium, manganese, selenium, and sodium were detected in laboratory method blanks below the PQL. For Method SW6010B_TCLP, boron and zinc were detected in laboratory method blanks below the PQL; lead was detected in laboratory method blanks above the PQL. For Method SW6020A, zinc was detected in one laboratory method blank below the PQL and iron was detected above the PQL. For Method SW7471B, mercury was detected in one method blank below the PQL. For Method SW870D, 2-methylnaphthalene was detected below the PQL and naphthalene was detected above the PQL in one laboratory method blank. Associated sample results were qualified as shown in Table 2A.

For Method SW8260B, as described in the case narrative, the method blank for batch 365228 was non-detect for all target analytes; however, for one sample associated with this method blank (1314V3-07-G01) acetone was detected just above the reporting limit. Acetone is a known lab contaminant; therefore, all low level detects for this compound should be considered lab contamination. The result has been qualified with U as non-detect.

For Method SW6020A, as described in the case narrative, the continuing calibration blanks (CCB) associated with batch 500-364837, at lines 155 and 159, results were above the reporting limit (RL) for thallium. The associated sample results were below the RL and were reported without qualification.

For Method SW8260B, no compounds were detected in the trip blanks, samples 1314V3-00-TB02 and 1314V3-00-TB03 .

3.0 SURROGATE SPIKE RECOVERY

Laboratory performance for individual samples analyzed for organic compounds is established by means of surrogate spiking activities. Samples are spiked with surrogate compounds prior to preparation and analysis. Unusually low or high surrogate recovery values may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target compounds. Sample surrogate recoveries outside QC limits (if applicable) are presented in Table 3. No qualification was made to MS/MSD results for samples with surrogate recoveries outside QC limits.

REVIEW RESULTS:

Surrogate spikes were appropriately added to all field and QC samples. The following surrogate failures were noted for semi-volatile analysis by SW8270D: Samples 1314V3-06-B09 (0-2) (5X dilution), 1314V3-18-B02 (0-7) (MS/MSD), 1314V3-24-B02 (0-5), 1314V3-24-B09 (0-4)

(MS/MSD), 1314V3-24-B09 (0-4), 1314V3-33-B02 (0-5) (MS/MSD), 1314V3-33-B03 (0-6), and 1314V3-33-B04 (0-6) each had one acid and/or base/neutral surrogate outside of control limits. No qualification of the data was made.

The following surrogate failures were noted for volatile analysis by SW8260B: Samples 1314V3-06-B01 (0-8), 1314V3-06-B06 (0-4), 1314V3-06-B09 (0-2), 1314V3-17-B01 (0-7), 1314V3-18-B09 (0-8), 1314V3-24-B05 (0-5), 1314V3-24-B07 (0-5), 1314V3-24-B12 (0-6), and 1314V3-24-B13 (0-6) each had one or two surrogates above control limits. Associated sample results were non-detects and no qualification of the data was made except for sample 1314V3-B13 (0-6) the results for tetrachloroethene and xylenes, total were qualified with J as estimated. Samples 1314V3-60-B03 (4-9), 1314V3-60-B06 (0-6), and 1314V3-60-B06 (0-6) (MS/MSD) each had one acid and/or base/neutral surrogate outside of control limits. No qualification of the data was made.

4.0 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

The matrix spike and matrix spike duplicate (MS/MSD) analyses are intended to provide information about the effects that the sample matrix exerts on the digestion/extraction and measurement methodology. MS recovery values that do not meet laboratory QC criteria may indicate that sample analyte results are being attenuated in the analysis procedure. These results are presented in Table 4 (if applicable). The potential sample bias may be estimated by noting the degree to which the MS concentration was elevated or lowered in the spike analysis. However, this bias should serve only as approximations; sample-specific problems may be the cause of the discrepancy, particularly in soil samples. Recoveries of a post-digestion spike or a laboratory control sample (LCS) are used to verify that the analytical methodology is acceptable and that MS recoveries are due to matrix effects. An MSD analysis is performed to evaluate the precision of the sample results. Precision is measured as the relative percent difference (RPD) between analytical results for duplicate samples. The laboratory's failure to produce similar results for MSD samples may indicate that the samples were non-homogeneous (particularly in soil samples), or that method defects may exist in the laboratory's techniques.

REVIEW RESULTS:

The MS/MSD sample analyses were performed at the required frequency. The recovery and RPD results for MS/MSDs for project samples were within QC criteria established except as noted on Table 4 (batch MS/MSDs performed for other clients' samples were not included in the table).

If the spiking recovery was high and the analyte was not detected in the sample, no qualification of the data was made; however, if there was a positive detection in the parent sample, then the result was J qualified as estimated.

If the spiking recovery was low and the analyte was not detected in the parent, then the parent result was UJ qualified. If the analyte was detected in the parent sample, then the result was J qualified as estimated.

For laboratory replicate analyses that failed precision, the results in the parent sample were qualified J as estimated if the RPD did not meet the laboratory limit. No qualification was made on the analytes that exhibited poor precision with sample results that were less than 5X the PQL.

The MS and /or MSDs for several metals for Methods SW6010B and several semivolatile compounds for Method 8270D exhibited failing recoveries. 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, hexachlorocyclopentadiene, and pentachlorophenol exhibited 0% recovery in some of the MS/MSDs; however, these analytes are poor performing compounds in a multi-parameter spike and the associated sample results were qualified with UJ as estimated unless they were rejected for LCS failure and qualified with UR as rejected non-detect as noted in Section 5 (2,4-dinitrophenol). [Note: Most of the LCS failures were not associated with the MS/MSD samples.]

5.0 LABORATORY CONTROL SAMPLE ANALYSIS

The LCS is analyzed to monitor the efficiency of the digestion/extraction procedure and analytical instrument operation. The ability of the laboratory to successfully analyze an LCS demonstrates that there are no analytical problems related to the digestion/sample preparation procedures and/or instrument operations. The LCS results outside QC limits are presented in Table 5 (if applicable). Sporadic and marginal QC failures for multiple component methods do not indicate an analytical concern. If recoveries are high and the compounds are not detected in the samples, then no data qualification is required. All recoveries should be above 10% or the non-detect results flagged "UR" as rejected.

REVIEW RESULTS:

All LCS analyses were within control limits and performed at the required frequency except as noted on Table 5. 2,4-Dinitrophenol recovered below control limits (0% recovery) for LCS 500-365830/2-A, LCS 500-366006/2-A, and LCS 500-366823/2-A by Method SW8270D; associated sample results were non-detect and were qualified with UR as rejected non-detect. LCS 500-364764/2-A recovered below control limits for 3,3'-dichlorobenzidine by Method SW8270D; associated sample results were non-detect and were qualified with UJ as estimated non-detect. Carbazole and 4-nitroaniline recovered above control limits for LCS 500-366823/2-A by Method SW8270D; associated sample results were non-detect and were reported without qualification. 4-Nitroaniline recovered above control limits for LCS 500-365567/2-A by Method SW8270D; associated detected sample result was qualified with J as estimated and associated non-detect sample results were reported without qualification. Precision for LCSD 500-364761/3-A by Method SW8270D was outside control limits for 2,4-dimethylphenol, 3,3'-Dichlorobenzidine, and N-nitrosodiphenylamine; associated sample results were non-detects and were reported without qualification.

For Method SW6010B, the interference check standard solution (ICSA) associated with batch 500-366456 had results for cadmium above the control limit. The laboratory blank (MB), laboratory control sample (LCS), and all other QC results were within control limits. The associated samples had results below the reporting limit for cadmium, therefore the data have been reported without qualification.

For Method SW6020A, as described in the case narrative, the low level continuing calibration verification (CCVL) associated with batch 500-364837, at line 160, recovered above the upper control limit for thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported without qualification.

For Method SW6020A, as described in the case narrative, the low level check standard (CCVL) recovery associated with batch 500-365454, at line 37, recovered above the upper control limit for Beryllium. The samples associated with this CCVL were below the RL for the affected analyte; therefore, the data have been reported without qualification.

6.0 COMPOUND IDENTIFICATION AND QUANTITATION

Compound identities are assigned by comparing sample compound retention times to retention times from known (standard) compounds and identification of an acceptable mass spectrum. Compounds detected below PQLs in samples should be considered estimated and are qualified "J." The samples with compounds above the linear range were all re-analyzed at a higher dilution factor.

REVIEW RESULTS:

All compound identification and quantitation criteria were achieved as could be determined from the EDD. Samples were diluted to bring the target concentration within the calibration range or due to matrix effects as shown on Table 6. Generally, there was no impact to data usability. In some cases, elevated reporting limits were provided, which may be above regulatory limits.

For Method SW6020A, as described in the case narrative, the internal standard (Tb) was used to report the element Thallium in batch 500-364634 due to the LCS being spiked with the trace digestion spike which contains Bismuth. Associated sample results were non-detects and were reported without qualification.

For Method SW8082A, as described in the case narrative, the following sample required a mercury clean-up via EPA Method 3660A to reduce matrix interferences caused by sulfur: 1314V3-06-B01 (0-8). The sample result was reported without qualification.

For Method SW8260B, the Internal standard (ISTD) responses for sample 1314V3-06-B01 (0-8) were below acceptance limits. As described in an email from the laboratory, the sample was analyzed initially with all internal standards below QC limits. The sample was re-analyzed using the second frozen water preserved vial, again with all internal standards below QC limits. The sodium bisulfate preserved sample was analyzed next with 1 internal standard recovery below QC limits, and 2 surrogate recoveries outside QC limits. The sodium bisulfate data was reported versus high level methanol analysis in order to provide a lower reporting limit. As described in the case narrative, compounds associated with these internal standards have been flagged with a "*" in the data package. The best data were reported and the associated result (1,1,2,2-tetrachloroethane) has been qualified with UJ as estimated non-detect.

For Method SW8260B, as described in the case narrative, internal standard responses were outside of acceptance limits for samples 1314V3-24-B12 (0-6) and 1314V3-24-B13 (0-6). Compounds associated with these internal standards (1,1,2,2-tetrachloroethane and carbon tetrachloride) have been flagged with a "*" in the data package. Re-analysis was performed with

Internal standard responses and surrogate recoveries having concurring results. The best data were reported and qualified with UJ as estimated non-detect.

For Method SW8270D, as described in the case narrative, the perylene-d12 Internal standard (ISTD) response for sample 1314V3-60-B04 (0-5) was below acceptance limits. The sample was run a second time with concurring results. Results with the highest ISTD recovery have been reported and associated compounds (benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz(a,h)anthracene, di-n-octyl phthalate, and indeno[1,2,3-cd]pyrene) have been qualified with J for detected compounds and UJ for non-detects.

7.0 FIELD DUPLICATE SAMPLE RESULTS

Field duplicate samples were collected and analyzed as an indication of overall precision for both field and laboratory. Field duplicate results are summarized in Table 7 (if applicable). The results are expected to have more variability than laboratory duplicates, which measure only laboratory precision. It is expected also that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical field samples. The QC criteria used to assess field duplicate samples for this project was limits of 70% RPD for soils and 40% RPD for waters, or twice the general laboratory duplicate criteria. If both compounds were below the laboratory PQL or one of the compounds was present as a non-detect, then the compounds are generally not qualified due to field duplicate precision. There are no guidelines regarding data qualification based on poor field duplicate precision. Professional judgment was used to determine whether or not to qualify results.

REVIEW RESULTS:

One field duplicate was collected per 16 soil samples. The RPD ratings are listed on Table 7 and were generally "Good". For the field duplicate sample pair for sample 1314V3-11-B03 (0-1) the result for benzo[k]fluoranthene by Method SW8270D was qualified with J as estimated due to poor precision. For the field duplicate sample pair for sample 1314V3-24-B04 (5-10) the results for cobalt and manganese by Method SW6010B were qualified with J as estimated due to poor precision. For the field duplicate sample pair for sample 1314V3-33-B07 (0-8) the result for calcium by Method SW6010B was qualified with J as estimated due to poor precision.

Table 2 - List of Positive Results for Blank Samples

Method	Sample ID	Samp Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B	MB 500-364230/1-A	MBLK	Chromium	0.302	J	A	mg/Kg	0.17	1
SW6010B	MB 500-364513/1-A	MBLK	Chromium	0.416	J	A	mg/Kg	0.17	1
SW6010B	MB 500-365146/1-A	MBLK	Calcium	10.1	J	A	mg/Kg	6.4	20
SW6010B	MB 500-365146/1-A	MBLK	Chromium	0.249	J	A	mg/Kg	0.17	1
SW6010B	MB 500-365252/1-A	MBLK	Cadmium	0.0649	J	A	mg/Kg	0.058	0.2
SW6010B	MB 500-365252/1-A	MBLK	Calcium	8.22	J	A	mg/Kg	6.4	20
SW6010B	MB 500-365252/1-A	MBLK	Iron	9.33	J	A	mg/Kg	7.7	20
SW6010B	MB 500-365252/1-A	MBLK	Selenium	0.571	J	A	mg/Kg	0.5	1
SW6010B	MB 500-366081/1-A	MBLK	Chromium	0.32	J	A	mg/Kg	0.17	1
SW6010B	MB 500-366082/1-A	MBLK	Chromium	0.235	J	A	mg/Kg	0.17	1
SW6010B	MB 500-366285/1-A	MBLK	Calcium	11.4	J	A	mg/Kg	6.4	20
SW6010B	MB 500-366285/1-A	MBLK	Chromium	0.27	J	A	mg/Kg	0.17	1
SW6010B	MB 500-366285/1-A	MBLK	Iron	10.3	J	A	mg/Kg	7.7	20
SW6010B	MB 500-366285/1-A	MBLK	Manganese	0.204	J	A	mg/Kg	0.2	1
SW6010B	MB 500-366379/1-A	MBLK	Chromium	0.369	J	A	mg/Kg	0.17	1
SW6010B	MB 500-366379/1-A	MBLK	Iron	14.9	J	A	mg/Kg	7.7	20
SW6010B	MB 500-366379/1-A	MBLK	Magnesium	4.66	J	A	mg/Kg	4.1	10
SW6010B	MB 500-366379/1-A	MBLK	Sodium	15	J	A	mg/Kg	13	100
SW6010B_TCLP	LB 500-364421/1-B	MBLK	Lead	0.00781		A	mg/L	0.0075	0.0075
SW6010B_TCLP	LB 500-364421/1-B	MBLK	Zinc	0.0331	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-365091/1-B	MBLK	Lead	0.0471		A	mg/L	0.0075	0.0075
SW6010B_TCLP	LB 500-365093/1-C	MBLK	Lead	0.0473		A	mg/L	0.0075	0.0075
SW6010B_TCLP	LB 500-365818/1-C	MBLK	Zinc	0.0651	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-366139/1-B	MBLK	Boron	0.0644	J	A	mg/L	0.05	0.5
SW6020A	MB 500-364441/1-A	MBLK	Iron	0.113		A	mg/L	0.026	0.1
SW6020A	MB 500-364441/1-A	MBLK	Zinc	0.00954	J	A	mg/L	0.0046	0.02
SW7471B	MB 500-365139/12-A	MBLK	Mercury	0.0117	J	A	mg/Kg	0.0088	0.017
SW8270D	MB 500-364997/1-A	MBLK	2-Methylnaphthalene	0.000205	J	A	mg/L	0.000052	0.0016
SW8270D	MB 500-364997/1-A	MBLK	Naphthalene	0.00227		A	mg/L	0.00025	0.0008

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	10	B	0.59	1314V3-60-B03 (4-9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	10	B	0.59	1314V3-60-B03 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	11	B	0.6	1314V3-60-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	11	B	0.62	1314V3-60-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	12	B	0.57	1314V3-60-B04 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	13	B	0.62	1314V3-60-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	16	B	0.6	1314V3-60-B01 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	16	B	0.61	1314V3-60-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	9.2	B	0.58	1314V3-60-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364230/1-A	Solid	Chromium	0.302	9.8	B	0.55	1314V3-60-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	12	B	0.57	1314V3-01-B10 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	12	B	2.7	1314V3-07-B04 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	14	B	2.6	1314V3-07-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	21	B	0.74	1314V3-07-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	44	B	2.8	1314V3-07-B03 (0-5.5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	7.1	B	0.51	1314V3-06-B10 (6-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	7.3	B	0.62	1314V3-07-B04 (5-11)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	7.5	B	0.54	1314V3-06-B11 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	7.7	B	0.53	1314V3-06-B10 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-364513/1-A	Solid	Chromium	0.416	8.5	B	0.53	1314V3-06-B11 (6-10.7)	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.027	B	0.019	1314V3-06-B01 (0-8)	mg/Kg	U Flag	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.035	B	0.017	1314V3-02-B02 (0-6)	mg/Kg	U Flag	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.036	B	0.019	1314V3-02-B02 (6-12)D	mg/Kg	U Flag	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.038	B	0.018	1314V3-02-B02 (6-12)	mg/Kg	U Flag	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.065	B	0.018	1314V3-11-B01 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.091	B	0.017	1314V3-11-B03 (0-1)D	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.12	B	0.018	1314V3-02-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.12	B	0.018	1314V3-11-B03 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.13	B	0.018	1314V3-11-B02 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.43	B	0.02	1314V3-06-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.013	J B	0.017	1314V3-06-B03 (0-4)	mg/Kg	U Flag	mg/Kg
SW7471B	MB 500-365139/12-A	Solid	Mercury	0.0117	0.016	J B	0.022	1314V3-02-B01 (0-5)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	110000	B	140	1314V3-02-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	13000	B	55	1314V3-06-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	140000	B	120	1314V3-02-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	19000	B	11	1314V3-11-B03 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	21000	B	11	1314V3-02-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	21000	B	11	1314V3-11-B03 (0-1)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	23000	B	11	1314V3-02-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	30000	B	11	1314V3-06-B03 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	30000	B	12	1314V3-02-B02 (6-12)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	4500	B	55	1314V3-06-B01 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	83000	B	110	1314V3-11-B02 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Calcium	10.1	8900	B	11	1314V3-11-B01 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	11	B	0.59	1314V3-02-B01 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	13	B	0.54	1314V3-11-B01 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	13	B	0.56	1314V3-06-B03 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	15	B	0.55	1314V3-11-B03 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	15	B	0.56	1314V3-11-B03 (0-1)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	15	B	0.71	1314V3-02-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	15	B	0.56	1314V3-02-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	17	B	0.55	1314V3-11-B02 (0-1)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	17	B	0.58	1314V3-02-B02 (6-12)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	27	B	2.8	1314V3-06-B02 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	35	B	0.55	1314V3-02-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365146/1-A	Solid	Chromium	0.249	94	B	2.8	1314V3-06-B01 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.12	B	0.12	1314V3-17-B03 (0-7)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.13	B	0.11	1314V3-05-B01 (0-5)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.19	B	0.093	1314V3-24-B06 (0-4)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.2	B	0.11	1314V3-24-B08 (0-8)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.23	B	0.11	1314V3-24-B05 (5-10)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.28	B	0.11	1314V3-17-B01 (0-7)	mg/Kg	U Flag	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.3	B	0.11	1314V3-05-B02 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.44	B	0.1	1314V3-24-B07 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.46	B	0.1	1314V3-05-B03 (0-5.9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.51	B	0.11	1314V3-24-B05 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	1.5	B	0.55	1314V3-17-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.091	J B	0.11	1314V3-17-B03 (0-7)D	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Cadmium	0.0649	0.093	J B	0.12	1314V3-05-B02 (6-10.6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	11000	B	10	1314V3-24-B07 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	13000	B	9.3	1314V3-24-B06 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	19000	B	11	1314V3-17-B01 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	27000	B	11	1314V3-05-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	30000	B	11	1314V3-05-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	3100	B	11	1314V3-24-B05 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	4300	B	12	1314V3-05-B02 (6-10.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	5300	B	11	1314V3-24-B08 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	5500	B	55	1314V3-17-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	57000	B	100	1314V3-05-B03 (0-5.9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	7200	B	12	1314V3-17-B03 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	9000	B	11	1314V3-17-B03 (0-7)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Calcium	8.22	9800	B	11	1314V3-24-B05 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	10000	B	11	1314V3-24-B08 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	11000	B	11	1314V3-17-B03 (0-7)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	11000	B	12	1314V3-17-B03 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	12000	B	11	1314V3-05-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	12000	B	9.3	1314V3-24-B06 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	14000	B	11	1314V3-17-B01 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	15000	B	11	1314V3-24-B05 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	16000	B	10	1314V3-05-B03 (0-5.9)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	18000	B	10	1314V3-24-B07 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	19000	B	11	1314V3-05-B01 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	19000	B	12	1314V3-05-B02 (6-10.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	29000	B	11	1314V3-24-B05 (0-5)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-365252/1-A	Solid	Iron	9.33	32000	B	55	1314V3-17-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.54	B	0.53	1314V3-17-B03 (0-7)D	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.54	B	0.53	1314V3-24-B05 (5-10)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.65	B	0.52	1314V3-24-B07 (0-5)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.96	B	0.5	1314V3-05-B03 (0-5.9)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	1	B	0.46	1314V3-24-B06 (0-4)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	3	B	2.8	1314V3-17-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.28	J B	0.54	1314V3-05-B01 (0-5)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.34	J B	0.61	1314V3-05-B02 (6-10.6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.41	J B	0.58	1314V3-17-B03 (0-7)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.47	J B	0.57	1314V3-24-B05 (0-5)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-365252/1-A	Solid	Selenium	0.571	0.35	J B F1	0.55	1314V3-05-B02 (0-6)	mg/Kg	U Flag	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	12	B	0.49	1314V3-32-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	12	B	0.53	1314V3-18-B04 (0-5.3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	13	B	0.49	1314V3-18-B07 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	13	B	0.53	1314V3-32-B02 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	13	B	0.54	1314V3-32-B05 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	14	B	0.49	1314V3-18-B02 (7-13)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	15	B	0.47	1314V3-18-B02 (0-7)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	15	B	0.52	1314V3-18-B02 (0-7)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	15	B	0.59	1314V3-32-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	16	B	0.51	1314V3-32-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	16	B	0.62	1314V3-32-B02 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	19	B	0.58	1314V3-32-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	53	B	0.59	1314V3-32-B06 (0-3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	7.3	B	0.51	1314V3-18-B08 (0-4.4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	8.6	B	0.55	1314V3-18-B09 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	8.7	B	0.47	1314V3-32-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366081/1-A	Solid	Chromium	0.32	9.4	B	0.51	1314V3-32-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	11	B	0.48	1314V3-24-B09 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	12	B	0.52	1314V3-24-B04 (5-10)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	12	B	0.6	1314V3-24-B04 (5-10)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	12	B	0.6	1314V3-24-B02 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	13	B	0.49	1314V3-06-B05 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	15	B	2.5	1314V3-24-B03 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	16	B	0.53	1314V3-06-B04 (0-5.2)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	17	B	2.7	1314V3-24-B04 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	21	B	2.3	1314V3-24-B01 (0-5.8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	21	B	2.8	1314V3-06-B09 (0-2)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	24	B	0.53	1314V3-06-B08 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	24	B	2.4	1314V3-24-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	35	B	2.7	1314V3-06-B07 (0-4.3)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	40	B	0.6	1314V3-06-B08 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	42	B	0.56	1314V3-06-B06 (0-4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	5.3	B	0.46	1314V3-24-B10 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366082/1-A	Solid	Chromium	0.235	9.7	B	0.49	1314V3-24-B03 (5-10)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	11000	B	10	1314V3-24-B14 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	13000	B	10	1314V3-18-B05 (8-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	13000	B	13	1314V3-24-B12 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	14000	B	9.6	1314V3-18-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	15000	B	12	1314V3-24-B11 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	26000	B	9.3	1314V3-01-B09 (6-11.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	28000	B	8.9	1314V3-18-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	3300	B	9.2	1314V3-18-B06 (12-17)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	35000	B	9.5	1314V3-18-B01 (12-18)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	36000	B	11	1314V3-01-B09 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	38000	B	12	1314V3-18-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	5000	B	10	1314V3-18-B05 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	54000	B	11	1314V3-18-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	6600	B	10	1314V3-24-B12 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	7200	B	11	1314V3-24-B13 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	7500	B	11	1314V3-18-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	80000	B	100	1314V3-18-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	8500	B	10	1314V3-24-B14 (6-12)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	9600	B	11	1314V3-24-B13 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Calcium	11.4	15000	B F2	11	1314V3-24-B11 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	10	B	0.46	1314V3-18-B06 (12-17)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	10	B	0.54	1314V3-24-B11 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	10	B	0.56	1314V3-01-B09 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	10	B	0.57	1314V3-18-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	11	B	0.48	1314V3-18-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	11	B	0.51	1314V3-18-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	11	B	0.55	1314V3-18-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	12	B	0.44	1314V3-18-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	12	B	0.46	1314V3-01-B09 (6-11.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	12	B	0.51	1314V3-24-B14 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	12	B	0.58	1314V3-18-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	12	B	0.59	1314V3-24-B11 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	13	B	0.51	1314V3-18-B05 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	13	B	0.54	1314V3-24-B13 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	16	B	0.56	1314V3-24-B13 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	17	B	0.64	1314V3-24-B12 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	18	B	0.52	1314V3-24-B14 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	26	B	0.51	1314V3-24-B12 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	8.6	B	0.51	1314V3-18-B05 (8-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Chromium	0.27	9.7	B	0.47	1314V3-18-B01 (12-18)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	10000	B	12	1314V3-24-B11 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	10000	B	9.2	1314V3-18-B06 (12-17)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	11000	B	11	1314V3-18-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	12000	B	10	1314V3-18-B05 (8-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	12000	B	10	1314V3-18-B05 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	13000	B	10	1314V3-18-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	13000	B	11	1314V3-18-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	13000	B	12	1314V3-18-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	13000	B	8.9	1314V3-18-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	13000	B	9.5	1314V3-18-B01 (12-18)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	14000	B	9.3	1314V3-01-B09 (6-11.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	15000	B	11	1314V3-01-B09 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	17000	B	11	1314V3-24-B13 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	17000	B	13	1314V3-24-B12 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	18000	B	10	1314V3-24-B14 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	20000	B	9.6	1314V3-18-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	24000	B	11	1314V3-24-B11 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	30000	B	11	1314V3-24-B13 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	34000	B	10	1314V3-24-B14 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Iron	10.3	40000	B	10	1314V3-24-B12 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	210	B	0.46	1314V3-18-B06 (12-17)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	210	B	0.59	1314V3-24-B11 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	220	B	0.48	1314V3-18-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	270	B	0.51	1314V3-18-B05 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	280	B	0.44	1314V3-18-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	280	B	0.55	1314V3-18-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	290	B	0.46	1314V3-01-B09 (6-11.6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	290	B	0.47	1314V3-18-B01 (12-18)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	300	B	0.51	1314V3-18-B05 (8-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	320	B	0.57	1314V3-18-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	340	B	0.56	1314V3-01-B09 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	360	B	0.54	1314V3-24-B11 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	360	B	0.58	1314V3-18-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	370	B	0.51	1314V3-18-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	380	B	0.51	1314V3-24-B14 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	4100	B	5.1	1314V3-24-B12 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	600	B	0.64	1314V3-24-B12 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	610	B	0.52	1314V3-24-B14 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	800	B	0.54	1314V3-24-B13 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366285/1-A	Solid	Manganese	0.204	830	B	0.56	1314V3-24-B13 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	11	B	0.57	1314V3-33-B07 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	11	B	0.58	1314V3-33-B07 (0-8)D	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	12	B	0.58	1314V3-33-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	12	B	0.59	1314V3-33-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	12	B	0.6	1314V3-33-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	13	B	0.57	1314V3-33-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	13	B	0.58	1314V3-33-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	13	B	0.59	1314V3-33-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	13	B	0.61	1314V3-33-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	13	B	0.58	1314V3-33-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	14	B	0.6	1314V3-33-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	14	B	0.63	1314V3-33-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	5.8	B	0.51	1314V3-33-B02 (5-9.4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Chromium	0.369	6.3	B	0.51	1314V3-33-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	11000	B	10	1314V3-33-B02 (5-9.4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	12000	B	11	1314V3-33-B07 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	12000	B	12	1314V3-33-B07 (0-8)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	12000	B	12	1314V3-33-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	13000	B	11	1314V3-33-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	13000	B	12	1314V3-33-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	13000	B	12	1314V3-33-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	12	1314V3-33-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	13	1314V3-33-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	12	1314V3-33-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	12	1314V3-33-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	12	1314V3-33-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	14000	B	12	1314V3-33-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Iron	14.9	7000	B	10	1314V3-33-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	10000	B	6	1314V3-33-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	12000	B	5.9	1314V3-33-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	12000	B	6	1314V3-33-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	2000	B	5.9	1314V3-33-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	2100	B	5.8	1314V3-33-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	2600	B	6.1	1314V3-33-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	2800	B	5.7	1314V3-33-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	2900	B	5.1	1314V3-33-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	3400	B	5.7	1314V3-33-B07 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	3400	B	5.8	1314V3-33-B07 (0-8)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	5700	B	5.1	1314V3-33-B02 (5-9.4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	7600	B	5.8	1314V3-33-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	8100	B	6.3	1314V3-33-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Magnesium	4.66	8400	B	5.8	1314V3-33-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	120	B	57	1314V3-33-B07 (0-8)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	130	B	58	1314V3-33-B07 (0-8)D	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	140	B	51	1314V3-33-B02 (5-9.4)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	170	B	60	1314V3-33-B05 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	170	B	63	1314V3-33-B01 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	250	B	58	1314V3-33-B03 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	260	B	60	1314V3-33-B04 (6-12)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	290	B	61	1314V3-33-B05 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	350	B	57	1314V3-33-B03 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	460	B	59	1314V3-33-B01 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	630	B	58	1314V3-33-B04 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	85	B	51	1314V3-33-B02 (0-5)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	95	B	58	1314V3-33-B06 (0-6)	mg/Kg	Not Qualified	mg/Kg
SW6010B	MB 500-366379/1-A	Solid	Sodium	15	96	B	59	1314V3-33-B06 (6-12)	mg/Kg	Not Qualified	mg/Kg

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B_TCLP	LB 500-364421/1-B	Solid	Lead	0.00781	0.13	B	0.0075	1314V3-07-B03 (0-5.5)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	1	B	0.5	1314V3-07-B04 (0-5)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	3.9	B	0.5	1314V3-07-B03 (0-5.5)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	0.022	J B	0.5	1314V3-06-B11 (6-10.7)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	0.032	J B	0.5	1314V3-06-B10 (6-11)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	0.038	J B	0.5	1314V3-07-B04 (5-11)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	0.081	J B	0.5	1314V3-07-B02 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-364421/1-B	Solid	Zinc	0.0331	0.14	J B	0.5	1314V3-06-B10 (0-6)	mg/L	U Flag	mg/L

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.54	B	0.5	1314V3-24-B02 (0-5)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	12	B	0.5	1314V3-06-B08 (5-10)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.042	J B	0.5	1314V3-06-B04 (0-5.2)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.067	J B	0.5	1314V3-24-B09 (0-4)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.068	J B	0.5	1314V3-24-B10 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.076	J B	0.5	1314V3-06-B06 (0-4)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.13	J B	0.5	1314V3-06-B09 (0-2)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.14	J B	0.5	1314V3-24-B01 (0-5.8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.21	J B	0.5	1314V3-06-B05 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.22	J B	0.5	1314V3-06-B08 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.32	J B	0.5	1314V3-24-B04 (0-5)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.35	J B	0.5	1314V3-24-B03 (0-5)	mg/L	Not Qualified	mg/L
SW6010B_TCLP	LB 500-365818/1-C	Solid	Zinc	0.0651	0.22	J B F1	0.5	1314V3-06-B07 (0-4.3)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.063	J B	0.5	1314V3-18-B01 (12-18)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.068	J B	0.5	1314V3-01-B09 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.07	J B	0.5	1314V3-18-B05 (0-8)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.073	J B	0.5	1314V3-18-B05 (8-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.074	J B	0.5	1314V3-18-B01 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.075	J B	0.5	1314V3-18-B03 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.077	J B	0.5	1314V3-24-B13 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.091	J B	0.5	1314V3-24-B13 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.095	J B	0.5	1314V3-18-B06 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.098	J B	0.5	1314V3-18-B01 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.099	J B	0.5	1314V3-24-B12 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.1	J B	0.5	1314V3-24-B14 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.11	J B	0.5	1314V3-24-B14 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.11	J B	0.5	1314V3-24-B11 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.12	J B	0.5	1314V3-24-B12 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.12	J B	0.5	1314V3-24-B03 (0-6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.13	J B	0.5	1314V3-18-B06 (6-12)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.13	J B	0.5	1314V3-18-B06 (12-17)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.14	J B	0.5	1314V3-01-B09 (6-11.6)	mg/L	U Flag	mg/L
SW6010B_TCLP	LB 500-366139/1-B	Solid	Boron	0.0644	0.15	J B	0.5	1314V3-24-B11 (0-6)	mg/L	U Flag	mg/L

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag	Units
SW6020A	MB 500-364441/1-A	Water	Iron	0.113	14	B	0.1	1314V3-02-G01D	mg/L	Not Qualified	mg/L
SW6020A	MB 500-364441/1-A	Water	Iron	0.113	15	B	0.1	1314V3-02-G01	mg/L	Not Qualified	mg/L
SW6020A	MB 500-364441/1-A	Water	Zinc	0.00954	0.27	B	0.02	1314V3-02-G01D	mg/L	Not Qualified	mg/L
SW6020A	MB 500-364441/1-A	Water	Zinc	0.00954	0.31	B	0.02	1314V3-02-G01	mg/L	Not Qualified	mg/L

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	1314V3-06-B09 (0-2)	SAMP	Terphenyl-d14	210	25	150	5	None -- Diluted Out	1
SW8270D	1314V3-18-B02 (0-7)	MSD	Terphenyl-d14	157	25	150	1	None – QC Sample	1
SW8270D	1314V3-18-B02 (0-7)	MS	Terphenyl-d14	172	25	150	1	None – QC Sample	1
SW8270D	1314V3-24-B02 (0-5)	SAMP	Terphenyl-d14	219	25	150	1	None	1
SW8270D	1314V3-24-B09 (0-4)	SAMP	Terphenyl-d14	168	25	150	1	None	1
SW8270D	1314V3-24-B09 (0-4)	MSD	Terphenyl-d14	152	25	150	1	None – QC Sample	1
SW8270D	1314V3-24-B09 (0-4)	MS	Terphenyl-d14	154	25	150	1	None – QC Sample	1
SW8270D	1314V3-33-B02 (0-5)	MSD	Terphenyl-d14	199	25	150	1	None – QC Sample	1
SW8270D	1314V3-33-B02 (0-5)	MS	Terphenyl-d14	208	25	150	1	None – QC Sample	1
SW8270D	1314V3-33-B03 (0-6)	SAMP	Terphenyl-d14	174	25	150	1	None	1
SW8270D	1314V3-33-B04 (0-6)	SAMP	Terphenyl-d14	160	25	150	1	None	1
SW8260B	1314V3-06-B01 (0-8)	SAMP	4-Bromofluorobenzene (Surr)	137	70	120	1	None – High and ND	2
SW8260B	1314V3-06-B01 (0-8)	SAMP	Toluene-d8 (Surr)	124	75	123	1	None – High and ND	2
SW8260B	1314V3-06-B06 (0-4)	SAMP	4-Bromofluorobenzene (Surr)	130	70	120	1	None – High and ND	1
SW8260B	1314V3-06-B09 (0-2)	SAMP	4-Bromofluorobenzene (Surr)	129	70	120	1	None – High and ND	1
SW8260B	1314V3-17-B01 (0-7)	SAMP	Dibromofluoromethane	121	75	120	1	None – High and ND	1
SW8260B	1314V3-17-B02 (0-7)	SAMP	Dibromofluoromethane	121	75	120	1	None – High and ND	1
SW8260B	1314V3-18-B09 (0-8)	SAMP	Dibromofluoromethane	122	75	120	1	None – High and ND	1
SW8260B	1314V3-24-B05 (0-5)	SAMP	1,2-Dichloroethane-d4 (Surr)	138	69	134	1	None – High and ND	2
SW8260B	1314V3-24-B05 (0-5)	SAMP	Dibromofluoromethane	124	75	120	1	None – High and ND	2
SW8260B	1314V3-24-B07 (0-5)	SAMP	Dibromofluoromethane	125	75	120	1	None – High and ND	1
SW8260B	1314V3-24-B12 (0-6)	SAMP	Toluene-d8 (Surr)	135	75	123	1	None – High and ND	1
SW8260B	1314V3-24-B13 (0-6)	SAMP	Toluene-d8 (Surr)	124	75	123	1	None – High and ND	1

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8260B	1314V3-24-B13 (0-6)	SAMP	Toluene-d8 (Surr)	124	75	123	1	J Flag (tetrachloroethene and xylenes, total)	1
SW8270D	1314V3-60-B03 (4-9)	SAMP	2,4,6-Tribromophenol	23	25	130	1	None	1
SW8270D	1314V3-60-B06 (0-6)	SAMP	2-Fluorophenol	20	40	130	1	None	1
SW8270D	1314V3-60-B06 (0-6)	MSD	2-Fluorophenol	38	40	130	1	None – QC Sample	1
SW8270D	1314V3-60-B06 (0-6)	MS	2-Fluorophenol	23	40	130	1	None – QC Sample	1

Table 4 - List MS/MSD Recoveries and RPDs Outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-05-B02 (6-10.6)	MS	2,4-Dinitrophenol		3.32	0	1	10	110	U F1	UR Flag
SW8270D	1314V3-05-B02 (6-10.6)	MSD	2,4-Dinitrophenol		3.33	0	1	10	110	U F1	UR Flag
SW8270D	1314V3-05-B02 (6-10.6)	MS	Benzo[g,h,i]perylene		1.66	36	1	55	134	F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MSD	Benzo[g,h,i]perylene		1.66	36	1	55	134	F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MS	Dibenz(a,h)anthracene		1.66	47	1	61	134	F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MSD	Dibenz(a,h)anthracene		1.66	47	1	61	134	F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MS	Hexachlorocyclopentadiene		1.66	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MSD	Hexachlorocyclopentadiene		1.66	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MS	Indeno[1,2,3-cd]pyrene		1.66	44	1	50	149	F1	UJ Flag
SW8270D	1314V3-05-B02 (6-10.6)	MSD	Indeno[1,2,3-cd]pyrene		1.66	44	1	50	149	F1	UJ Flag
SW8270D	1314V3-06-B10 (0-6)	MS	2,4-Dinitrophenol		2.85	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-06-B10 (0-6)	MSD	2,4-Dinitrophenol		2.82	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-06-B10 (0-6)	MS	4-Nitrophenol		2.85	133	1	32	123	F1	None – High and ND
SW8270D	1314V3-06-B10 (0-6)	MSD	4-Nitrophenol		2.82	133	1	32	123	F1	None – High and ND
SW8270D	1314V3-06-B10 (0-6)	MSD	Benzo[b]fluoranthene	0.23	1.41	125	1	61	123	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MS	Benzo[g,h,i]perylene	0.098	1.42	31	1	55	134	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MSD	Benzo[g,h,i]perylene	0.098	1.41	35	1	55	134	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MS	Benzo[k]fluoranthene	0.1	1.42	126	1	59	125	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MSD	Benzo[k]fluoranthene	0.1	1.41	131	1	59	125	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MS	Dibenz(a,h)anthracene	0.03	1.42	47	1	61	134	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-06-B10 (0-6)	MSD	Dibenz(a,h)anthracene	0.03	1.41	50	1	61	134	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MS	Hexachlorocyclopentadiene		1.42	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-06-B10 (0-6)	MSD	Hexachlorocyclopentadiene		1.41	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-06-B10 (0-6)	MS	Indeno[1,2,3-cd]pyrene	0.093	1.42	40	1	50	149	F1	J Flag
SW8270D	1314V3-06-B10 (0-6)	MSD	Indeno[1,2,3-cd]pyrene	0.093	1.41	44	1	50	149	F1	J Flag
SW8270D	1314V3-11-B01 (0-1)	MS	3,3'-Dichlorobenzidine		1.48	21	1	40	110	F1	UJ Flag
SW8270D	1314V3-11-B01 (0-1)	MSD	3,3'-Dichlorobenzidine		1.46	31	1	40	110	F1 F2	UJ Flag
SW8270D	1314V3-11-B01 (0-1)	MS	Hexachlorocyclopentadiene		1.48	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-11-B01 (0-1)	MSD	Hexachlorocyclopentadiene		1.46	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	2,4-Dinitrophenol		2.93	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	2,4-Dinitrophenol		3.03	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	2,4-Dinitrotoluene		1.47	51	1	59	119	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	2,4-Dinitrotoluene		1.51	48	1	59	119	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	2,6-Dinitrotoluene		1.51	56	1	57	118	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	2-Nitrophenol		1.47	25	1	58	121	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	2-Nitrophenol		1.51	21	1	58	121	J F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	4,6-Dinitro-2-methylphenol		2.93	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	4,6-Dinitro-2-methylphenol		3.03	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	Benzo[g,h,i]perylene		1.47	53	1	55	134	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Benzo[g,h,i]perylene		1.51	47	1	55	134	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	Bis(2-ethylhexyl) phthalate		1.47	139	1	62	117	F1	None – High and ND
SW8270D	1314V3-18-B02 (0-7)	MSD	Bis(2-ethylhexyl) phthalate		1.51	128	1	62	117	F1	None – High and ND
SW8270D	1314V3-18-B02 (0-7)	MS	Dibenz(a,h)anthracene		1.47	58	1	61	134	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Dibenz(a,h)anthracene		1.51	52	1	61	134	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	Di-n-octyl phthalate		1.47	39	1	58	129	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Di-n-octyl phthalate		1.51	41	1	58	129	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	Hexachlorocyclopentadiene		1.47	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Hexachlorocyclopentadiene		1.51	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MS	Hexachloroethane		1.47	45	1	54	111	F1	UJ Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Hexachloroethane		1.51	45	1	54	111	F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-18-B02 (0-7)	MS	Pyrene	0.0096	1.47	154	1	60	115	F1	J Flag
SW8270D	1314V3-18-B02 (0-7)	MSD	Pyrene	0.0096	1.51	137	1	60	115	F1	J Flag
SW8270D	1314V3-24-B09 (0-4)	MS	2,4-Dinitrophenol		2.93	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	2,4-Dinitrophenol		2.99	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	3,3'-Dichlorobenzidine		1.47	37	1	40	110	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	4,6-Dinitro-2-methylphenol		2.93	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	4,6-Dinitro-2-methylphenol		2.99	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	Benzo[g,h,i]perylene		1.47	46	1	55	134	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Benzo[g,h,i]perylene		1.49	43	1	55	134	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	Bis(2-ethylhexyl) phthalate		1.47	136	1	62	117	F1	None – High and ND
SW8270D	1314V3-24-B09 (0-4)	MSD	Bis(2-ethylhexyl) phthalate		1.49	134	1	62	117	F1	None – High and ND
SW8270D	1314V3-24-B09 (0-4)	MS	Butyl benzyl phthalate		1.47	144	1	61	115	F1	None – High and ND
SW8270D	1314V3-24-B09 (0-4)	MSD	Butyl benzyl phthalate		1.49	139	1	61	115	F1	None – High and ND
SW8270D	1314V3-24-B09 (0-4)	MS	Dibenz(a,h)anthracene		1.47	53	1	61	134	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Dibenz(a,h)anthracene		1.49	50	1	61	134	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	Di-n-octyl phthalate		1.47	52	1	58	129	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Di-n-octyl phthalate		1.49	50	1	58	129	F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MS	Hexachlorocyclopentadiene		1.47	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Hexachlorocyclopentadiene		1.49	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Indeno[1,2,3-cd]pyrene	0.024	1.49	46	1	50	149	F1	J Flag
SW8270D	1314V3-24-B09 (0-4)	MS	Pyrene	0.084	1.47	141	1	60	115	F1	J Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Pyrene	0.084	1.49	132	1	60	115	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MS	2,4-Dinitrophenol		3.08	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	2,4-Dinitrophenol		3.03	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MS	3,3'-Dichlorobenzidine		1.54	26	1	40	110	F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	3,3'-Dichlorobenzidine		1.51	29	1	40	110	F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	4-Nitroaniline		1.51	148	1	55	146	F1	None – High and ND
SW8270D	1314V3-24-B11 (0-6)	MSD	Benzo[b]fluoranthene	0.42	1.51	132	1	61	123	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-24-B11 (0-6)	MS	Benzo[g,h,i]perylene	0.11	1.54	36	1	55	134	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	Benzo[g,h,i]perylene	0.11	1.51	33	1	55	134	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MS	Dibenz(a,h)anthracene	0.032	1.54	46	1	61	134	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	Dibenz(a,h)anthracene	0.032	1.51	44	1	61	134	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MS	Hexachlorocyclopentadiene		1.54	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	Hexachlorocyclopentadiene		1.51	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-24-B11 (0-6)	MS	Indeno[1,2,3-cd]pyrene	0.098	1.54	44	1	50	149	F1	J Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	Indeno[1,2,3-cd]pyrene	0.098	1.51	41	1	50	149	F1	J Flag
SW8270D	1314V3-32-B06 (0-3)	MS	4-Nitroaniline		1.61	163	1	55	146	F1	None – High and ND
SW8270D	1314V3-32-B06 (0-3)	MSD	4-Nitroaniline		1.6	166	1	55	146	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	2,4-Dinitrophenol		2.71	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	2,4-Dinitrophenol		2.77	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MS	2-Nitroaniline		1.35	127	1	52	121	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	4,6-Dinitro-2-methylphenol		2.71	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	4,6-Dinitro-2-methylphenol		2.77	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MS	Bis(2-chloroethyl)ether		1.35	119	1	53	116	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Bis(2-ethylhexyl) phthalate		1.35	196	1	62	117	E F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MSD	Bis(2-ethylhexyl) phthalate		1.39	191	1	62	117	E F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Butyl benzyl phthalate		1.35	193	1	61	115	E F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MSD	Butyl benzyl phthalate		1.39	192	1	61	115	E F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Diethyl phthalate		1.35	135	1	58	117	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Di-n-octyl phthalate		1.35	41	1	58	129	F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	Di-n-octyl phthalate		1.39	40	1	58	129	F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MS	Fluoranthene	0.32	1.35	56	1	61	124	F1	J Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	Fluoranthene	0.32	1.39	53	1	61	124	F1	J Flag
SW8270D	1314V3-33-B02 (0-5)	MS	Hexachlorocyclopentadiene		1.35	0	1	10	116	U F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-33-B02 (0-5)	MSD	Hexachlorocyclopentadiene		1.39	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MS	N-Nitrosodi-n-propylamine		1.35	121	1	56	119	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Pentachlorophenol		2.71	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	Pentachlorophenol		2.77	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-33-B02 (0-5)	MS	Phenol		1.35	122	1	55	118	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MSD	Phenol		1.39	122	1	55	118	F1	None – High and ND
SW8270D	1314V3-33-B02 (0-5)	MS	Pyrene	0.31	1.35	179	1	60	115	E F1	J Flag
SW8270D	1314V3-33-B02 (0-5)	MSD	Pyrene	0.31	1.39	164	1	60	115	E F1	J Flag
SW7471B	1314V3-24-B11 (0-6)	MS	Mercury	0.16	0.0938	141	1	75	125	F1	J Flag
SW7471B	1314V3-32-B06 (0-3)	MSD	Mercury	0.27	0.0969	62	1	75	125	F1	J Flag
SW6010B_TCLP	1314V3-06-B07 (0-4.3)	MS	Manganese	6.2	0.5	1092	1	50	150	4	None -- 4X
SW6010B_TCLP	1314V3-06-B07 (0-4.3)	MS	Nickel	0.21	0.5	47	1	50	150	F1	J Flag
SW6010B_TCLP	1314V3-06-B07 (0-4.3)	MS	Zinc	0.22	0.5	158	1	50	150	F1	J Flag
SW6010B_TCLP	1314V3-07-B04 (5-11)	MS	Manganese	10	0.5	298	1	50	150	4	None -- 4X
SW6010B_SPLP	1314V3-17-B03 (0-7)D	MS	Manganese	1.2	0.5	-105	1	50	150	F1	J Flag
SW6010B_SPLP	1314V3-32-B02 (6-12)	MS	Manganese	0.59	0.5	25	1	50	150	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MS	Antimony	0.28	27.8	21	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Antimony	0.28	25.1	19	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MS	Barium	81	111	74	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Barium	81	100	66	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MS	Boron	4.6	55.7	62	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Boron	4.6	50.2	64	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MS	Calcium	27000	557	1104	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MSD	Calcium	27000	502	-531	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MS	Iron	12000	55.7	4874	1	75	125	4	None -- 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW6010B	1314V3-05-B02 (0-6)	MSD	Iron	12000	50.2	3806	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MSD	Lead	23	5.02	189	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MS	Magnesium	11000	557	-6	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MSD	Magnesium	11000	502	54	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MS	Manganese	430	27.8	-53	1	75	125	4	None -- 4X
SW6010B	1314V3-05-B02 (0-6)	MS	Potassium	980	557	142	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Potassium	980	502	131	1	75	125	F1	J Flag
SW6010B	1314V3-05-B02 (0-6)	MS	Selenium	0.35	5.57	66	1	75	125	F1	UJ Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Selenium	0.35	5.02	65	1	75	125	F1	UJ Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Thallium		5.02	72	1	75	125	F1	UJ Flag
SW6010B	1314V3-05-B02 (0-6)	MSD	Zinc	67	25.1	165	1	75	125	F1	J Flag
SW6010B	1314V3-11-B01 (0-1)	MS	Antimony		27.4	24	1	75	125	F1	UJ Flag
SW6010B	1314V3-11-B01 (0-1)	MSD	Antimony		27.7	23	1	75	125	F1	UJ Flag
SW6010B	1314V3-11-B01 (0-1)	MS	Boron	3.3	54.8	74	1	75	125	F1	J Flag
SW6010B	1314V3-11-B01 (0-1)	MS	Calcium	8900	548	181	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MSD	Calcium	8900	553	230	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MS	Iron	12000	54.8	3571	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MSD	Iron	12000	55.3	3349	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MSD	Lead	26	5.53	254	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MS	Magnesium	2800	548	169	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MSD	Magnesium	2800	553	172	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MS	Manganese	410	27.4	482	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MSD	Manganese	410	27.7	380	1	75	125	4	None -- 4X
SW6010B	1314V3-11-B01 (0-1)	MS	Selenium	0.28	5.48	74	1	75	125	F1	J Flag
SW6010B	1314V3-11-B01 (0-1)	MSD	Selenium	0.28	5.53	74	1	75	125	F1	J Flag
SW6010B	1314V3-11-B01 (0-1)	MSD	Zinc	45	27.7	131	1	75	125	F1	J Flag
SW6010B	1314V3-18-B02 (0-7)	MS	Antimony	0.58	28.3	21	1	75	125	F1	J Flag
SW6010B	1314V3-18-B02 (0-7)	MSD	Antimony	0.58	27.2	23	1	75	125	F1	J Flag
SW6010B	1314V3-18-B02 (0-7)	MS	Calcium	14000	565	-269	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MSD	Calcium	14000	543	-44	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MS	Iron	15000	56.5	7410	1	75	125	4	None -- 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW6010B	1314V3-18-B02 (0-7)	MSD	Iron	15000	54.3	4680	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MS	Magnesium	8100	565	-29	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MSD	Magnesium	8100	543	-46	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MS	Manganese	290	28.3	72	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MSD	Manganese	290	27.2	178	1	75	125	4	None -- 4X
SW6010B	1314V3-18-B02 (0-7)	MS	Potassium	780	565	199	1	75	125	F1	J Flag
SW6010B	1314V3-18-B02 (0-7)	MSD	Potassium	780	543	194	1	75	125	F1	J Flag
SW6010B	1314V3-18-B02 (0-7)	MSD	Selenium	0.46	5.43	73	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Antimony	1.5	22.2	18	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Antimony	1.5	23.2	20	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Barium	62	89	66	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Barium	62	93	65	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Boron	5.2	44.5	58	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Boron	5.2	46.5	66	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Cadmium	0.16	2.22	70	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Calcium	47000	445	4868	10	75	125	4	None -- Diluted Out
SW6010B	1314V3-24-B09 (0-4)	MSD	Calcium	47000	465	-886	10	75	125	4 F2	None -- Diluted Out
SW6010B	1314V3-24-B09 (0-4)	MS	Copper	15	11.1	60	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Copper	15	11.6	70	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Iron	17000	44.5	3780	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MSD	Iron	17000	46.5	2305	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MS	Lead	65	4.45	-7	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MSD	Lead	65	4.65	-216	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MS	Magnesium	7200	445	63	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MSD	Magnesium	7200	465	1432	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MS	Manganese	450	22.2	-143	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MSD	Manganese	450	23.2	-278	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MSD	Potassium	700	465	139	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MS	Selenium	0.41	4.45	63	1	75	125	F1	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Selenium	0.41	4.65	65	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW6010B	1314V3-24-B09 (0-4)	MS	Sodium	2200	445	65	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B09 (0-4)	MS	Zinc	74	22.2	59	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MS	Antimony	2.9	25.3	27	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MSD	Antimony	2.9	25.2	30	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MS	Calcium	15000	506	2032	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Calcium	15000	505	3353	1	75	125	4 F2	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MS	Copper	42	12.6	65	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MS	Iron	24000	50.6	-664	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Iron	24000	50.5	1040	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MS	Lead	110	5.06	567	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Lead	110	5.05	914	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MS	Magnesium	4600	506	388	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Magnesium	4600	505	546	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MS	Manganese	360	25.3	163	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Manganese	360	25.2	280	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MS	Potassium	930	506	153	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MSD	Potassium	930	505	142	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MS	Selenium	1	5.06	73	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MSD	Sodium	1100	505	136	1	75	125	F1	J Flag
SW6010B	1314V3-24-B11 (0-6)	MS	Zinc	230	25.3	-100	1	75	125	4	None -- 4X
SW6010B	1314V3-24-B11 (0-6)	MSD	Zinc	230	25.2	-98	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Antimony		24.9	29	1	75	125	F1	UJ Flag
SW6010B	1314V3-33-B02 (0-5)	MSD	Antimony		25.4	33	1	75	125	F1	UJ Flag
SW6010B	1314V3-33-B02 (0-5)	MS	Boron	1.1	49.9	70	1	75	125	F1	J Flag
SW6010B	1314V3-33-B02 (0-5)	MSD	Boron	1.1	50.7	72	1	75	125	F1	J Flag
SW6010B	1314V3-33-B02 (0-5)	MS	Calcium	7800	499	-48	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MSD	Calcium	7800	507	30	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Iron	7000	49.9	2060	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MSD	Iron	7000	50.7	1902	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Lead	20	4.99	176	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Magnesium	2900	499	140	1	75	125	4	None -- 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW6010B	1314V3-33-B02 (0-5)	MSD	Magnesium	2900	507	188	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Manganese	210	24.9	36	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MSD	Manganese	210	25.4	25	1	75	125	4	None -- 4X
SW6010B	1314V3-33-B02 (0-5)	MS	Selenium	0.3	4.99	69	1	75	125	F1	J Flag
SW6010B	1314V3-33-B02 (0-5)	MSD	Selenium	0.3	5.07	71	1	75	125	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2,4,5-Trichlorophenol		1.46	40	1	42	119	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2,4,5-Trichlorophenol		1.46	32	1	42	119	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2,4,6-Trichlorophenol		1.46	43	1	50	120	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2,4,6-Trichlorophenol		1.46	33	1	50	120	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2,4-Dichlorophenol		1.46	37	1	61	116	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2,4-Dichlorophenol		1.46	42	1	61	116	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2,4-Dinitrophenol		2.92	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2,4-Dinitrophenol		2.92	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2-Chlorophenol		1.46	46	1	57	117	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2-Chlorophenol		1.46	55	1	57	117	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	2-Nitrophenol		1.46	28	1	58	121	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	2-Nitrophenol		1.46	33	1	58	121	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	4,6-Dinitro-2-methylphenol		2.92	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	4,6-Dinitro-2-methylphenol		2.92	0	1	10	110	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Anthracene	0.65	1.46	52	1	57	118	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Benzo[a]anthracene	1.2	1.46	41	1	63	115	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Benzo[a]pyrene	0.97	1.46	50	1	64	122	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Benzo[b]fluoranthene	1.5	1.46	57	1	61	123	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Benzo[g,h,i]perylene	0.32	1.46	34	1	55	134	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Benzo[g,h,i]perylene	0.32	1.46	24	1	55	134	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Bis(2-chloroethyl)ether		1.46	149	1	53	116	F1	None – High and ND
SW8270D	1314V3-60-B06 (0-6)	MSD	Bis(2-chloroethyl)ether		1.46	48	1	53	116	F1 F2	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Chrysene	1.1	1.46	61	1	63	118	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Chrysene	1.1	1.46	42	1	63	118	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Dibenz(a,h)anthracene	0.12	1.46	44	1	61	134	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Dibenz(a,h)anthracene	0.12	1.46	37	1	61	134	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qual	Sample Qual.
SW8270D	1314V3-60-B06 (0-6)	MS	Fluoranthene	3.1	1.46	32	1	61	124	E F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Fluoranthene	3.1	1.46	-8	1	61	124	E F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Hexachlorocyclopentadiene		1.46	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Hexachlorocyclopentadiene		1.46	0	1	10	116	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Hexachloroethane		1.46	53	1	54	111	F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Indeno[1,2,3-cd]pyrene	0.34	1.46	38	1	50	149	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Indeno[1,2,3-cd]pyrene	0.34	1.46	28	1	50	149	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Pentachlorophenol		2.92	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Pentachlorophenol		2.92	0	1	12	116	U F1	UJ Flag
SW8270D	1314V3-60-B06 (0-6)	MS	Phenanthrene	2.5	1.46	35	1	58	125	E F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Phenanthrene	2.5	1.46	0.6	1	58	125	F1	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Pyrene	2.2	1.46	44	1	60	115	E F1	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	1314V3-05-B02 (0-6)	DUP	Barium	35	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Calcium	39	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Cobalt	26	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Lead	30	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Magnesium	22	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Manganese	59	20	J Flag
SW6010B	1314V3-05-B02 (0-6)	DUP	Selenium	36	20	None -- <5X PQL
SW6010B	1314V3-05-B02 (0-6)	DUP	Sodium	35	20	None -- <5X PQL
SW8270D	1314V3-05-B02 (6-10.6)	MSD	4-Nitrophenol	38	30	None -- <5X PQL
SW6010B	1314V3-11-B01 (0-1)	DUP	Iron	29	20	J Flag
SW6010B	1314V3-11-B01 (0-1)	DUP	Lead	39	20	J Flag
SW6010B	1314V3-11-B01 (0-1)	DUP	Manganese	24	20	J Flag
SW6010B	1314V3-11-B01 (0-1)	DUP	Selenium	31	20	None -- <5X PQL
SW6010B	1314V3-11-B01 (0-1)	DUP	Thallium	31	20	None -- <5X PQL
SW6010B	1314V3-11-B01 (0-1)	MSD	Lead	26	20	J Flag
SW6010B_TCLP	1314V3-11-B01 (0-1)	DUP	Cadmium	40	20	None -- <5X PQL
SW6010B_TCLP	1314V3-11-B01 (0-1)	DUP	Zinc	21	20	None -- <5X PQL
SW8270D	1314V3-11-B01 (0-1)	MSD	3,3'-Dichlorobenzidine	37	30	None -- <5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	1314V3-18-B02 (0-7)	MSD	Pentachlorophenol	50	30	None -- <5X PQL
SW6010B	1314V3-24-B09 (0-4)	DUP	Antimony	131	20	None -- <5X PQL
SW6010B	1314V3-24-B09 (0-4)	DUP	Arsenic	23	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Barium	28	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Boron	34	20	None -- <5X PQL
SW6010B	1314V3-24-B09 (0-4)	DUP	Cadmium	64	20	None -- <5X PQL
SW6010B	1314V3-24-B09 (0-4)	DUP	Calcium	57	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Cobalt	28	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Copper	28	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Iron	29	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Lead	92	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Manganese	29	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Nickel	33	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	DUP	Selenium	54	20	None -- <5X PQL
SW6010B	1314V3-24-B09 (0-4)	DUP	Zinc	22	20	J Flag
SW6010B	1314V3-24-B09 (0-4)	MSD	Calcium	51	20	None -- Diluted Out
SW6010B	1314V3-24-B09 (0-4)	MSD	Magnesium	59	20	J Flag
SW8270D	1314V3-24-B09 (0-4)	MSD	Pentachlorophenol	45	30	None -- <5X PQL
SW6010B	1314V3-24-B11 (0-6)	DUP	Antimony	24	20	None -- <5X PQL
SW6010B	1314V3-24-B11 (0-6)	DUP	Barium	27	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Boron	39	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Cadmium	51	20	None -- <5X PQL
SW6010B	1314V3-24-B11 (0-6)	DUP	Calcium	31	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Copper	23	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Iron	25	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Magnesium	23	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Nickel	21	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	DUP	Zinc	24	20	J Flag
SW6010B	1314V3-24-B11 (0-6)	MSD	Calcium	23	20	J Flag
SW8270D	1314V3-24-B11 (0-6)	MSD	2,4,5-Trichlorophenol	51	30	None -- <5X PQL
SW8270D	1314V3-24-B11 (0-6)	MSD	3 & 4 Methylphenol	32	30	None -- <5X PQL
SW8270D	1314V3-24-B11 (0-6)	MSD	4,6-Dinitro-2-methylphenol	84	30	None -- <5X PQL
SW6010B_SPLP	1314V3-32-B02 (6-12)	DUP	Manganese	29	20	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	1314V3-32-B06 (0-3)	MSD	4-Nitrophenol	88	30	None -- <5X PQL
SW8270D	1314V3-32-B06 (0-3)	MSD	Pentachlorophenol	44	30	None -- <5X PQL
SW6010B	1314V3-33-B02 (0-5)	DUP	Barium	60	20	J Flag
SW6010B	1314V3-33-B02 (0-5)	DUP	Calcium	46	20	J Flag
SW6010B	1314V3-33-B02 (0-5)	DUP	Lead	22	20	J Flag
SW6010B	1314V3-33-B02 (0-5)	DUP	Manganese	69	20	J Flag
SW6010B	1314V3-33-B02 (0-5)	DUP	Nickel	23	20	J Flag
SW8270D	1314V3-60-B06 (0-6)	MSD	Bis(2-chloroethyl)ether	102	30	None -- <5X PQL

Table 5 - List LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	BatchID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW8270D	LCS 500-364764/2-A	3,3'-Dichlorobenzidine	500-364764	51	57	145	2	UJ Flag
SW8270D	LCS 500-365567/2-A	4-Nitroaniline	500-365567	159	55	146	1	J Flag
SW8270D	LCS 500-365567/2-A	4-Nitroaniline	500-365567	159	55	146	9	U
SW8270D	LCS 500-365830/2-A	2,4-Dinitrophenol	500-365830	0	10	110	12	UR Flag
SW8270D	LCS 500-366006/2-A	2,4-Dinitrophenol	500-366006	0	10	110	13	UR Flag
SW8270D	LCS 500-366823/2-A	2,4-Dinitrophenol	500-366823	0	10	110	10	UR Flag
SW8270D	LCS 500-366823/2-A	4-Nitroaniline	500-366823	181	55	146	10	None – High and Non-Detect
SW8270D	LCS 500-366823/2-A	Carbazole	500-366823	141	65	137	10	None – High and Non-Detect
SW8260B	LCS 500-365926/4	Carbon tetrachloride	500-365926	125	65	123	0	None – QC Samples only in batch

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	LCSD 500-364764/3-A	LCSD	2,4-Dimethylphenol	39	20	None -- ND
SW8270D	LCSD 500-364764/3-A	LCSD	3,3'-Dichlorobenzidine	57	20	None -- ND
SW8270D	LCSD 500-364764/3-A	LCSD	N-Nitrosodiphenylamine	25	20	None -- ND

Table 6 –Samples that were Re-analyzed

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
1314V3-02-B01 (0-5)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-02-B01 (5-10)	SW8270D	SAMP	Diluted to bring benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, and pyrene within the calibration curve.	5	7
1314V3-02-B01 (5-10)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-05-B03 (0-5.9)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-06-B01 (0-8)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-06-B02 (0-8)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-06-B04 (0-5.2)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	5	1
1314V3-06-B07 (0-4.3)	SW8270D	SAMP	Diluted to bring benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene within the calibration curve.	5	11
1314V3-06-B07 (0-4.3)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-06-B08 (0-5)	SW8270D	SAMP	Diluted to bring benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz(a,h)anthracene, and indeno[1,2,3-cd]pyrene within the calibration curve.	5	6
1314V3-06-B08 (5-10)	SW6010B	SAMP	Diluted to bring zinc within the calibration curve.	5	1
1314V3-06-B09 (0-2)	SW8270D	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	64
1314V3-06-B09 (0-2)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-07-B01 (0-6)	SW8270D	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	64
1314V3-07-B01 (0-6)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-07-B02 (0-5)	SW8270D	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	10	64
1314V3-07-B02 (0-5)	SW8260B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	500	37
1314V3-07-B02 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting	5	22

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
			limits provided.		
1314V3-07-B03 (0-5.5)	SW8270D	SAMP	Diluted to bring 4-nitroaniline, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, phenanthrene, and pyrene within the calibration curve.	5	8
1314V3-07-B03 (0-5.5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-07-B04 (0-5)	SW8270D	SAMP	Diluted to bring benzo[b]fluoranthene and benzo[k]fluoranthene within the calibration curve.	5	2
1314V3-07-B04 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-11-B02 (0-1)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-17-B02 (0-7)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-18-B01 (0-6)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-18-B07 (0-8)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-18-B09 (0-8)	SW6010B	SAMP	Diluted to bring lead within the calibration curve.	10	1
1314V3-24-B01 (0-5.8)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-24-B02 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-24-B03 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-24-B04 (0-5)	SW7471B	SAMP	Diluted to bring mercury within the calibration curve.	5	1
1314V3-24-B04 (0-5)	SW6010B	SAMP	Diluted due to the nature of the sample matrix; elevated reporting limits provided.	5	22
1314V3-24-B07 (0-5)	SW7471B	SAMP	Diluted to bring mercury within the calibration curve.	5	1
1314V3-24-B09 (0-4)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-24-B10 (0-5)	SW8270D	SAMP	Diluted to bring benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno[1,2,3-cd]pyrene, and pyrene within the calibration curve.	5	10
1314V3-24-B10 (0-5)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-24-B12 (0-6)	SW6010B	SAMP	Diluted to bring manganese within the calibration curve.	10	1
1314V3-33-B03 (0-6)	SW8270D	SAMP	Diluted to bring anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene,	20	14

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
			chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene within the calibration curve.		
1314V3-60-B02 (0-7)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1
1314V3-60-B06 (0-6)	SW8270D	SAMP	Diluted to bring fluoranthene within the calibration curve.	5	1
1314V3-60-B06 (0-6)	SW6010B	SAMP	Diluted to bring calcium within the calibration curve.	10	1

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-02-B02 (6-12)	1314V3-02-B02 (6-12)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	17	17.8	4.6%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	83	82.2	1.0%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.1	A	0.35	0.44	22.8%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.56	A	4.5	3	40.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.56	A	64	50	24.6%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.55	0.55	0.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.8	A	1.7	2	16.2%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.11	A	0.27	0.25	7.7%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	A	23000	30000	26.4%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.56	A	15	17	12.5%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.28	A	5.4	4.6	16.0%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.56	A	14	13	7.4%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	15000	12000	22.2%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.28	A	20	20	0.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.6	A	11000	12000	8.7%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.56	A	230	250	8.3%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.56	A	14	14	0.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	28	A	740	450	48.7%	Good	None
SW6010B	Sodium	mg/Kg	Solid	56	A	140	140	0.0%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.56	A	0.61	0.52	15.9%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.28	A	25	24	4.1%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	A	34	33	3.0%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.28	0.28	0.0%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.77	0.79	2.6%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-02-B02 (6-12)	1314V3-02-B02 (6-12)D	RPD	RPD Rating	Sample Qual
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0074	0.004	59.6%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.02	ND	NC	--	--
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	4.3	3.4	23.4%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.063	0.038	49.5%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.38	ND	NC	--	--
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.079	A	0.0084	ND	NC	--	--
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.039	A	0.0089	ND	NC	--	--
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.039	A	0.0091	ND	NC	--	--
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.039	A	0.021	0.013	47.1%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.039	A	0.012	ND	NC	--	--
SW8270D	Fluoranthene	mg/Kg	Solid	0.039	A	0.016	ND	NC	--	--
SW8270D	Naphthalene	mg/Kg	Solid	0.039	A	0.0077	ND	NC	--	--
SW8270D	Phenanthrene	mg/Kg	Solid	0.039	A	0.016	ND	NC	--	--
SW8270D	Pyrene	mg/Kg	Solid	0.039	A	0.014	ND	NC	--	--
SW9045D	pH	SU	Solid	0.2	A	9.1	8.9	2.2%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-11-B03 (0-1)	1314V3-11-B03 (0-1)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	12.1	12.6	4.0%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	87.9	87.4	0.6%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.1	A	0.47	0.33	35.0%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.55	A	4.3	4.1	4.8%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.55	A	81	87	7.1%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.22	A	0.56	0.54	3.6%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.8	A	5.6	5.1	9.3%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.11	A	0.44	0.43	2.3%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	A	19000	21000	10.0%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.55	A	15	15	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.28	A	5	5	0.0%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.55	A	19	17	11.1%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	15000	13000	14.3%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.28	A	73	65	11.6%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.5	A	4300	4000	7.2%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.55	A	440	460	4.4%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.55	A	13	13	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-11-B03 (0-1)	1314V3-11-B03 (0-1)D	RPD	RPD Rating	Sample Qual
SW6010B	Potassium	mg/Kg	Solid	28	A	580	600	3.4%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.55	A	ND	0.3	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	55	A	280	270	3.6%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.55	A	0.8	0.84	4.9%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.28	A	21	20	4.9%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	A	85	76	11.2%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.33	0.37	11.4%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.74	0.74	0.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.064	0.06	6.5%	Good	None
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0032	0.0029	9.8%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.46	0.61	28.0%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.069	0.094	30.7%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.12	0.091	27.5%	Good	None
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.074	A	0.02	0.016	22.2%	Good	None
SW8270D	Acenaphthene	mg/Kg	Solid	0.036	A	0.031	0.025	21.4%	Good	None
SW8270D	Acenaphthylene	mg/Kg	Solid	0.036	A	0.011	0.01	9.5%	Good	None
SW8270D	Anthracene	mg/Kg	Solid	0.036	A	0.092	0.074	21.7%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.036	A	0.4	0.35	13.3%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.036	A	0.51	0.42	19.4%	Good	None
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.036	A	0.67	0.59	12.7%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.036	A	0.15	0.12	22.2%	Good	None
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.036	A	0.27	0.78	97.1%	Poor	J Flag
SW8270D	Chrysene	mg/Kg	Solid	0.036	A	0.38	0.34	11.1%	Good	None
SW8270D	Dibenz(a,h)anthracene	mg/Kg	Solid	0.036	A	0.054	0.046	16.0%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.036	A	0.79	0.68	15.0%	Good	None
SW8270D	Fluorene	mg/Kg	Solid	0.036	A	0.032	0.023	32.7%	Good	None
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.036	A	0.16	0.14	13.3%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.036	A	0.014	0.013	7.4%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.036	A	0.4	0.35	13.3%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.036	A	0.76	0.7	8.2%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.5	8.5	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-17-B03 (0-7)	1314V3-17-B03 (0-7)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	14.8	14.4	2.7%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-17-B03 (0-7)	1314V3-17-B03 (0-7)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Solids	%	Solid	0.1	A	85.2	85.6	0.5%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.58	A	5.5	5	9.5%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.58	A	46	40	14.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.38	0.37	2.7%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.9	A	1.8	1.8	0.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	12	A	7200	9000	22.2%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.58	A	10	10	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.29	A	6.6	5.8	12.9%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.58	A	8.1	8.3	2.4%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	11000	11000	0.0%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.29	A	7.5	7.5	0.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.8	A	4500	5600	21.8%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.58	A	290	190	41.7%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.58	A	13	12	8.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	29	A	440	450	2.2%	Good	None
SW6010B	Sodium	mg/Kg	Solid	58	A	570	570	0.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.29	A	19	18	5.4%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	28	29	3.5%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.78	1.2	42.4%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.49	0.45	8.5%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.06	0.051	16.2%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.56	0.58	3.5%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.014	0.022	44.4%	Good	None
SW9045D	pH	SU	Solid	0.2	A	7.6	7.8	2.6%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-18-B02 (0-7)	1314V3-18-B02 (0-7)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	13.5	13.7	1.5%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	86.5	86.3	0.2%	Good	None
SW6010B	Antimony	mg/Kg	Solid	0.95	A	0.58	0.61	5.0%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.47	A	4	4.6	14.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.47	A	78	71	9.4%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.19	A	0.59	0.59	0.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.4	A	2.5	2.6	3.9%	Good	None
SW6010B	Calcium	mg/Kg	Solid	9.5	A	14000	15000	6.9%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-18-B02 (0-7)	1314V3-18-B02 (0-7)D	RPD	RPD Rating	Sample Qual
SW6010B	Chromium	mg/Kg	Solid	0.47	A	15	15	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.24	A	5.8	6.5	11.4%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.47	A	12	13	8.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	9.5	A	15000	16000	6.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.24	A	9.1	10	9.4%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	4.7	A	8100	8600	6.0%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.47	A	290	310	6.7%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.47	A	14	15	6.9%	Good	None
SW6010B	Potassium	mg/Kg	Solid	24	A	780	810	3.8%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.47	A	0.46	0.5	8.3%	Good	None
SW6010B	Sodium	mg/Kg	Solid	47	A	100	110	9.5%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.47	A	0.98	0.92	6.3%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.24	A	26	26	0.0%	Good	None
SW6010B	Zinc	mg/Kg	Solid	0.95	A	32	36	11.8%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.13	0.15	14.3%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.68	0.73	7.1%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.054	0.062	13.8%	Good	None
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0022	0.0021	4.7%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.66	0.55	18.2%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.035	ND	NC	--	--
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.029	0.025	14.8%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.038	A	0.0059	0.0093	44.7%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.038	A	ND	0.011	NC	--	--
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.038	A	0.011	0.016	37.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.038	A	ND	0.012	NC	--	--
SW8270D	Fluoranthene	mg/Kg	Solid	0.038	A	0.012	0.02	50.0%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.038	A	ND	0.0078	NC	--	--
SW8270D	Pyrene	mg/Kg	Solid	0.038	A	0.0096	0.017	55.6%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8	8	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-24-B04 (5-10)	1314V3-24-B04 (5-10)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	19.7	19.2	2.6%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	80.3	80.8	0.6%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.2	A	0.32	0.28	13.3%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.6	A	6.4	4.2	41.5%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.6	A	130	65	66.7%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.24	A	0.47	0.43	8.9%	Good	None
SW6010B	Boron	mg/Kg	Solid	3	A	2.4	2.3	4.3%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.12	A	0.36	0.098	114.4%	Poor	None -- <5X PQL
SW6010B	Calcium	mg/Kg	Solid	12	A	5400	6700	21.5%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.6	A	12	12	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.3	A	13	5.9	75.1%	Poor	J Flag
SW6010B	Copper	mg/Kg	Solid	0.6	A	8.8	8.5	3.5%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	14000	13000	7.4%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.3	A	10	8.8	12.8%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6	A	4200	4800	13.3%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.6	A	1000	300	107.7%	Poor	J Flag
SW6010B	Nickel	mg/Kg	Solid	0.6	A	29	15	63.6%	Good	None
SW6010B	Potassium	mg/Kg	Solid	30	A	690	680	1.5%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.6	A	0.39	ND	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	60	A	440	450	2.2%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.3	A	23	16	35.9%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	33	33	0.0%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.33	0.33	0.0%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.48	0.48	0.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.086	0.1	15.1%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.32	0.33	3.1%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.021	A	0.027	0.032	16.9%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.5	8.5	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-33-B07 (0-8)	1314V3-33-B07 (0-8)D	RPD	RPD Rating	Sample Qual
EMoisture	Percent Moisture	%	Solid	0.1	A	15.3	15.6	1.9%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	84.7	84.4	0.4%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.1	A	ND	0.37	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.57	A	6.4	5.7	11.6%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.57	A	53	53	0.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.41	0.42	2.4%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.9	A	1.5	1.9	23.5%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.11	A	0.2	0.2	0.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	A	6200	13000	70.8%	Poor	J Flag
SW6010B	Chromium	mg/Kg	Solid	0.57	A	11	11	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.29	A	6.4	6.6	3.1%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.57	A	11	11	0.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	12000	12000	0.0%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.29	A	47	49	4.2%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.7	A	3400	3400	0.0%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.57	A	320	360	11.8%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.57	A	15	16	6.5%	Good	None
SW6010B	Potassium	mg/Kg	Solid	29	A	620	700	12.1%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.57	A	ND	0.34	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	57	A	120	130	8.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.29	A	18	18	0.0%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	A	43	47	8.9%	Good	None
SW6010B_SPLP	Lead	mg/L	Solid	0.0075	A	0.13	0.077	51.2%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.31	0.26	17.5%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.6	0.68	12.5%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.07	0.058	18.8%	Good	None
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0023	0.0023	0.0%	Good	None
SW6010B_TCLP	Lead	mg/L	Solid	0.0075	A	0.02	0.034	51.9%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.2	0.32	46.2%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.051	0.036	34.5%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.041	0.031	27.8%	Good	None
SW8270D	Anthracene	mg/Kg	Solid	0.037	A	ND	0.0071	NC	--	--
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.037	A	0.04	0.048	18.2%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.037	A	0.057	0.065	13.1%	Good	None
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.037	A	0.093	0.1	7.3%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-33-B07 (0-8)	1314V3-33-B07 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.037	A	0.022	0.022	0.0%	Good	None
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.037	A	0.036	0.036	0.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.037	A	0.049	0.048	2.1%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.037	A	0.085	0.085	0.0%	Good	None
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.037	A	0.029	0.031	6.7%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.037	A	0.037	0.034	8.5%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.037	A	0.085	0.097	13.2%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.4	8.6	2.4%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	1314V3-02-G01	1314V3-02-G01D	RPD	RPD Rating	Sample Qual
SW6020A	Arsenic	mg/L	Water	0.001	A	0.0074	0.0068	8.5%	Good	None
SW6020A	Barium	mg/L	Water	0.0025	A	0.18	0.17	5.7%	Good	None
SW6020A	Beryllium	mg/L	Water	0.001	A	0.00072	0.00071	1.4%	Good	None
SW6020A	Boron	mg/L	Water	0.05	A	0.49	0.46	6.3%	Good	None
SW6020A	Cadmium	mg/L	Water	0.0005	A	0.0012	0.0011	8.7%	Good	None
SW6020A	Calcium	mg/L	Water	0.2	A	85	83	2.4%	Good	None
SW6020A	Chromium	mg/L	Water	0.005	A	0.017	0.012	34.5%	Good	None
SW6020A	Cobalt	mg/L	Water	0.001	A	0.0044	0.0039	12.0%	Good	None
SW6020A	Copper	mg/L	Water	0.002	A	0.029	0.028	3.5%	Good	None
SW6020A	Iron	mg/L	Water	0.1	A	15	14	6.9%	Good	None
SW6020A	Lead	mg/L	Water	0.0005	A	0.51	0.48	6.1%	Good	None
SW6020A	Magnesium	mg/L	Water	0.2	A	11	11	0.0%	Good	None
SW6020A	Manganese	mg/L	Water	0.0025	A	0.39	0.35	10.8%	Good	None
SW6020A	Nickel	mg/L	Water	0.002	A	0.013	0.012	8.0%	Good	None
SW6020A	Potassium	mg/L	Water	0.5	A	9.6	9.1	5.3%	Good	None
SW6020A	Silver	mg/L	Water	0.0005	A	0.00011	0.0001	9.5%	Good	None
SW6020A	Sodium	mg/L	Water	0.2	A	21	20	4.9%	Good	None
SW6020A	Vanadium	mg/L	Water	0.005	A	0.015	0.015	0.0%	Good	None
SW6020A	Zinc	mg/L	Water	0.02	A	0.31	0.27	13.8%	Good	None
SW7470A	Mercury	mg/L	Water	0.0002	A	0.00012	ND	NC	--	--
SW8260B	Xylenes, Total	mg/L	Water	0.001	A	0.00067	ND	NC	--	--
SW8270D	Diethyl phthalate	mg/L	Water	0.0016	A	0.00048	0.00041	15.7%	Good	None
SW8270D	Phenanthrene	mg/L	Water	0.00081	A	ND	0.00032	NC	--	--

TestAmerica

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ANALYTICAL REPORT

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TestAmerica Job ID: 500-120663-1
Client Project/Site: IDOT - I-74 - WO 046

For:
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Attn: Mr. Dean Tiebout



Authorized for release by:
12/6/2016 4:15:47 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Job ID: 500-120663-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-120663-1

Comments

No additional comments.

Receipt

The samples were received on 11/29/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate outside acceptance limits: 1314V3-25-B01 (0-6) (500-120663-8) and 1314V3-25-B02 (6-12) (500-120663-11). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-120663-E-1-J MS) and (500-120663-E-1-K MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the nature of the sample matrix: 1314V3-25-B06 (0-6) (500-120663-4), 1314V3-25-B01 (0-6) (500-120663-8) and 1314V3-25-B05 (0-6) (500-120663-12). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The method blank for preparation batch 500-362833 and analytical batch 500-363271 contained Chromium above the reporting limit (RL). Associated samples 1314V3-25-B06 (0-6) (500-120663-4), 1314V3-25-B01 (0-6) (500-120663-8), 1314V3-25-B01 (6-12) (500-120663-9) and 1314V3-25-B05 (0-6) (500-120663-12) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.024	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120	F1	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	5.3	F1 B	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	6300		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.6	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	13	F1	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	490		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2500	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	170	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	710	B F1	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J F1	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	54	J F2 B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	F1	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.35	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.082	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.060		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.031	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0067	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.029	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.1		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6) (Continued)

Lab Sample ID: 500-120663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.70		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	6.9	B	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	5300		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.1		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	63		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	530	B	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.77		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	85	B	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.26	J B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.34	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.085	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.14		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.030	J	0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.2		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4	B	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	7800		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4700	B	6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	570	B	0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	750	B	31	5.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12) (Continued)

Lab Sample ID: 500-120663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.59	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	87	B	62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.034	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.062		0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.10		0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.017	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.010	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.076	J	0.20	0.047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.1		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.22		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Chrysene	2.8		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.3		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.40		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.97		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene - DL	5.6		0.20	0.037	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	4.9		0.20	0.040	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	2.2		0.20	0.027	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	3.3		0.20	0.043	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.99		0.20	0.059	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2.1		0.20	0.039	mg/Kg	5	☼	8270D	Total/NA
Antimony	18		6.0	1.3	mg/Kg	5	☼	6010B	Total/NA
Arsenic	19		3.0	1.4	mg/Kg	5	☼	6010B	Total/NA
Barium	130		3.0	0.55	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.9		1.2	0.26	mg/Kg	5	☼	6010B	Total/NA
Boron	61	B	15	2.1	mg/Kg	5	☼	6010B	Total/NA
Cadmium	3.7		0.60	0.17	mg/Kg	5	☼	6010B	Total/NA
Calcium	15000		60	19	mg/Kg	5	☼	6010B	Total/NA
Chromium	19	B	3.0	0.52	mg/Kg	5	☼	6010B	Total/NA
Cobalt	9.6		1.5	0.34	mg/Kg	5	☼	6010B	Total/NA
Copper	100		3.0	0.65	mg/Kg	5	☼	6010B	Total/NA
Iron	61000	B	60	23	mg/Kg	5	☼	6010B	Total/NA
Lead	1900		1.5	0.75	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1800	B	30	12	mg/Kg	5	☼	6010B	Total/NA
Manganese	870	B	3.0	0.60	mg/Kg	5	☼	6010B	Total/NA
Nickel	26		3.0	0.82	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6) (Continued)

Lab Sample ID: 500-120663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	800	B	150	25	mg/Kg	5	☼	6010B	Total/NA
Selenium	4.3		3.0	1.5	mg/Kg	5	☼	6010B	Total/NA
Silver	0.35	J	1.5	0.35	mg/Kg	5	☼	6010B	Total/NA
Sodium	280	J B	300	40	mg/Kg	5	☼	6010B	Total/NA
Vanadium	34		1.5	0.44	mg/Kg	5	☼	6010B	Total/NA
Zinc	980		6.0	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.36	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0066		0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.96		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.83		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.22		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.066		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.018		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.25		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.3		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	4.5	B	3.1	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	9100		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5900	B	6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	610	B	0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	B	31	5.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	390	B	62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.090	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0075	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.026	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.022	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.027	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.6	B	3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	400	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	680	B	30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	53	J B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.055		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8	J B	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	8000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	9.6		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12) (Continued)

Lab Sample ID: 500-120663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.3		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5000	B	6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	250	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	690	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	72	B	60	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.095	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.22		0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.20		0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.45		0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.21		0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.25		0.20	0.047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.28		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.63		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.42		0.20	0.10	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.0		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	2.1		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	0.25		0.20	0.028	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	3.8		0.20	0.037	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	4.0		0.20	0.040	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	4.8		0.20	0.043	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.8		0.20	0.059	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	3.0		0.20	0.039	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1.6		0.20	0.052	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.47		0.20	0.039	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.4		0.20	0.064	mg/Kg	5	☼	8270D	Total/NA
Antimony	5.3	J	6.1	1.3	mg/Kg	5	☼	6010B	Total/NA
Arsenic	11		3.0	1.4	mg/Kg	5	☼	6010B	Total/NA
Barium	190		3.0	0.56	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.9		1.2	0.26	mg/Kg	5	☼	6010B	Total/NA
Boron	50	B	15	2.1	mg/Kg	5	☼	6010B	Total/NA
Cadmium	2.2		0.61	0.18	mg/Kg	5	☼	6010B	Total/NA
Calcium	67000		61	20	mg/Kg	5	☼	6010B	Total/NA
Chromium	19	B	3.0	0.52	mg/Kg	5	☼	6010B	Total/NA
Cobalt	7.7		1.5	0.34	mg/Kg	5	☼	6010B	Total/NA
Copper	63		3.0	0.66	mg/Kg	5	☼	6010B	Total/NA
Iron	47000	B	61	23	mg/Kg	5	☼	6010B	Total/NA
Lead	270		1.5	0.76	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6) (Continued)

Lab Sample ID: 500-120663-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6400	B	30	12	mg/Kg	5	☼	6010B	Total/NA
Manganese	840	B	3.0	0.60	mg/Kg	5	☼	6010B	Total/NA
Nickel	25		3.0	0.83	mg/Kg	5	☼	6010B	Total/NA
Potassium	1600	B	150	25	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.4	J	3.0	1.5	mg/Kg	5	☼	6010B	Total/NA
Sodium	460	B	300	40	mg/Kg	5	☼	6010B	Total/NA
Thallium	1.5	J	3.0	1.5	mg/Kg	5	☼	6010B	Total/NA
Vanadium	28		1.5	0.44	mg/Kg	5	☼	6010B	Total/NA
Zinc	850		6.1	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0068		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.9		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.089		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.19		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4	B	3.2	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000		13	4.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.32	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7500	B	6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	440	B	0.63	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	900	B	32	5.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	82	B	63	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.32	0.092	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.087	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12) (Continued)

Lab Sample ID: 500-120663-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.8		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	180		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.26	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0	J B	3.2	0.45	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Calcium	9400		13	4.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.32	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	48		0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600	B	6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	190	B	0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000	B	32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	190	B	64	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.32	0.094	mg/Kg	1	☼	6010B	Total/NA
Zinc	93		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J B	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.25		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.065		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	99		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	3.9	B	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9300	B	6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	250	B	0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	990	B	31	5.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12) (Continued)

Lab Sample ID: 500-120663-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.65		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	B	62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.090	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.025	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.037	J	0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.016	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.090		0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.053	J	0.20	0.047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.074		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.69		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.14		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.17	J	0.20	0.10	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.86		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.72		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.41		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.46		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.58		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.40		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.080		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.25		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	4.1	J	6.1	1.3	mg/Kg	5	☼	6010B	Total/NA
Arsenic	9.6		3.1	1.4	mg/Kg	5	☼	6010B	Total/NA
Barium	120		3.1	0.56	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.5		1.2	0.26	mg/Kg	5	☼	6010B	Total/NA
Boron	14	J B	15	2.1	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.2		0.61	0.18	mg/Kg	5	☼	6010B	Total/NA
Calcium	5100		61	20	mg/Kg	5	☼	6010B	Total/NA
Chromium	26	B	3.1	0.53	mg/Kg	5	☼	6010B	Total/NA
Cobalt	9.0		1.5	0.34	mg/Kg	5	☼	6010B	Total/NA
Copper	100		3.1	0.66	mg/Kg	5	☼	6010B	Total/NA
Iron	61000	B	61	24	mg/Kg	5	☼	6010B	Total/NA
Lead	710		1.5	0.76	mg/Kg	5	☼	6010B	Total/NA
Magnesium	960	B	31	12	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (0-6) (Continued)

Lab Sample ID: 500-120663-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	680	B	3.1	0.60	mg/Kg	5	☼	6010B	Total/NA
Nickel	30		3.1	0.83	mg/Kg	5	☼	6010B	Total/NA
Potassium	610	B	150	25	mg/Kg	5	☼	6010B	Total/NA
Selenium	3.5		3.1	1.5	mg/Kg	5	☼	6010B	Total/NA
Sodium	84	J B	310	40	mg/Kg	5	☼	6010B	Total/NA
Vanadium	33		1.5	0.45	mg/Kg	5	☼	6010B	Total/NA
Zinc	380		6.1	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.43		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.30	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.34		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.013		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.0083		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.050		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0097	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.017	J	0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J B	3.0	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	3100		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	440	B	0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	730	B	30	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	39	J B	61	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12) (Continued)

Lab Sample ID: 500-120663-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.050	J B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.28	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Mercury	0.021		0.021	0.011	mg/Kg	1	*	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-120663-1	1314V3-25-B03 (0-8)	Solid	11/28/16 11:55	11/29/16 09:25
500-120663-2	1314V3-25-B04 (0-6)	Solid	11/28/16 12:30	11/29/16 09:25
500-120663-3	1314V3-25-B04 (6-12)	Solid	11/28/16 12:35	11/29/16 09:25
500-120663-4	1314V3-25-B06 (0-6)	Solid	11/28/16 13:15	11/29/16 09:25
500-120663-5	1314V3-25-B06 (6-12)	Solid	11/28/16 13:20	11/29/16 09:25
500-120663-6	1314V3-25-B07 (0-6)	Solid	11/28/16 14:00	11/29/16 09:25
500-120663-7	1314V3-25-B07 (6-12)	Solid	11/28/16 14:05	11/29/16 09:25
500-120663-8	1314V3-25-B01 (0-6)	Solid	11/28/16 14:45	11/29/16 09:25
500-120663-9	1314V3-25-B01 (6-12)	Solid	11/28/16 14:50	11/29/16 09:25
500-120663-10	1314V3-25-B02 (0-6)	Solid	11/28/16 15:35	11/29/16 09:25
500-120663-11	1314V3-25-B02 (6-12)	Solid	11/28/16 15:40	11/29/16 09:25
500-120663-12	1314V3-25-B05 (0-6)	Solid	11/28/16 16:35	11/29/16 09:25
500-120663-13	1314V3-25-B05 (6-12)	Solid	11/28/16 16:40	11/29/16 09:25

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	11/29/16 12:20	12/02/16 14:35	1
Dibromofluoromethane	99		75 - 120	11/29/16 12:20	12/02/16 14:35	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/29/16 12:20	12/02/16 14:35	1
Toluene-d8 (Surr)	99		75 - 123	11/29/16 12:20	12/02/16 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19	F2	0.19	0.085	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.057	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Phenanthrene	0.024	J	0.038	0.0053	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Fluoranthene	0.025	J	0.038	0.0071	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Pyrene	0.021	J	0.038	0.0076	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Benzo[a]anthracene	0.013	J	0.038	0.0052	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.038	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Benzo[b]fluoranthene	0.012	J	0.038	0.0083	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/02/16 07:34	12/02/16 20:56	1
Phenol-d5	95		36 - 123	12/02/16 07:34	12/02/16 20:56	1
Nitrobenzene-d5	76		33 - 124	12/02/16 07:34	12/02/16 20:56	1
2-Fluorobiphenyl	80		42 - 115	12/02/16 07:34	12/02/16 20:56	1
2,4,6-Tribromophenol	76		25 - 130	12/02/16 07:34	12/02/16 20:56	1
Terphenyl-d14	88		25 - 150	12/02/16 07:34	12/02/16 20:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.24	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Arsenic	2.3		0.58	0.27	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Barium	120	F1	0.58	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Beryllium	0.61		0.23	0.050	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Boron	5.3	F1 B	2.9	0.41	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Cadmium	0.38		0.12	0.034	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Calcium	6300		12	3.7	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Chromium	9.6	B	0.58	0.10	mg/Kg	☼	11/29/16 15:07	12/03/16 05:09	1
Cobalt	5.1		0.29	0.066	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Copper	13	F1	0.58	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Iron	12000	B	12	4.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Lead	490		0.29	0.14	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Magnesium	2500	B	5.8	2.4	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Manganese	170	B	0.58	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Nickel	13		0.58	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Potassium	710	B F1	29	4.7	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Selenium	0.35	J F1	0.58	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Silver	<0.29	F1	0.29	0.068	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Sodium	54	J F2 B	58	7.7	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Vanadium	13		0.29	0.085	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1
Zinc	110	F1	1.2	0.37	mg/Kg	☼	11/29/16 15:07	12/01/16 19:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:14	1
Boron	0.13	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 21:14	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:14	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:14	1
Iron	0.35	J	0.40	0.20	mg/L		12/02/16 14:06	12/03/16 21:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 21:14	1
Manganese	0.25		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:14	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:14	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 21:14	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:14	1
Zinc	0.082	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 21:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 20:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.018	0.0095	mg/Kg	☼	11/29/16 14:30	11/30/16 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			11/30/16 13:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	11/29/16 12:20	12/02/16 14:59	1
Dibromofluoromethane	97		75 - 120	11/29/16 12:20	12/02/16 14:59	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/29/16 12:20	12/02/16 14:59	1
Toluene-d8 (Surr)	104		75 - 123	11/29/16 12:20	12/02/16 14:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Phenanthrene	0.031	J	0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Anthracene	0.0067	J	0.040	0.0067	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Fluoranthene	0.033	J	0.040	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Pyrene	0.029	J	0.040	0.0080	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.040	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Benzo[b]fluoranthene	0.018	J	0.040	0.0086	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Benzo[a]pyrene	0.016	J	0.040	0.0078	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/02/16 07:34	12/02/16 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		40 - 130	12/02/16 07:34	12/02/16 21:25	1
Phenol-d5	96		36 - 123	12/02/16 07:34	12/02/16 21:25	1
Nitrobenzene-d5	81		33 - 124	12/02/16 07:34	12/02/16 21:25	1
2-Fluorobiphenyl	84		42 - 115	12/02/16 07:34	12/02/16 21:25	1
2,4,6-Tribromophenol	72		25 - 130	12/02/16 07:34	12/02/16 21:25	1
Terphenyl-d14	87		25 - 150	12/02/16 07:34	12/02/16 21:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.1	0.23	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Arsenic	5.5		0.56	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Barium	88		0.56	0.10	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Beryllium	0.70		0.22	0.048	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Boron	6.9	B	2.8	0.39	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Cadmium	0.49		0.11	0.032	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Calcium	5300		11	3.6	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Chromium	12	B	0.56	0.096	mg/Kg	☼	11/29/16 15:07	12/03/16 05:43	1
Cobalt	7.1		0.28	0.063	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Copper	15		0.56	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Iron	18000	B	11	4.3	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Lead	63		0.28	0.14	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Magnesium	1600	B	5.6	2.3	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Manganese	340	B	0.56	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Nickel	17		0.56	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Potassium	530	B	28	4.6	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Selenium	0.77		0.56	0.28	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Sodium	85	B	56	7.4	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Vanadium	20		0.28	0.082	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1
Zinc	120		1.1	0.35	mg/Kg	☼	11/29/16 15:07	12/01/16 19:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:19	1
Boron	0.26	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Iron	0.34	J	0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Manganese	0.10		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:19	1
Zinc	0.085	J	0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 11:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 11:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 11:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.018	0.0096	mg/Kg	☼	11/29/16 14:30	11/30/16 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		11/30/16 13:28	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0098	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Chloromethane	<0.0056		0.0056	0.0023	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,2-Dichloroethane	<0.0056		0.0056	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,2-Dichloropropane	<0.0023		0.0023	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
2-Hexanone	<0.0056		0.0056	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Vinyl acetate	<0.0056		0.0056	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	11/29/16 12:20	12/02/16 15:24	1
Dibromofluoromethane	94		75 - 120	11/29/16 12:20	12/02/16 15:24	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 134	11/29/16 12:20	12/02/16 15:24	1
Toluene-d8 (Surr)	100		75 - 123	11/29/16 12:20	12/02/16 15:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Phenanthrene	0.026	J	0.042	0.0059	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Fluoranthene	0.030	J	0.042	0.0078	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Pyrene	0.023	J	0.042	0.0084	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Benzo[a]anthracene	0.015	J	0.042	0.0057	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.042	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Benzo[b]fluoranthene	0.015	J	0.042	0.0091	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Benzo[a]pyrene	0.012	J	0.042	0.0082	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/02/16 07:34	12/02/16 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/02/16 07:34	12/02/16 21:55	1
Phenol-d5	93		36 - 123	12/02/16 07:34	12/02/16 21:55	1
Nitrobenzene-d5	76		33 - 124	12/02/16 07:34	12/02/16 21:55	1
2-Fluorobiphenyl	79		42 - 115	12/02/16 07:34	12/02/16 21:55	1
2,4,6-Tribromophenol	60		25 - 130	12/02/16 07:34	12/02/16 21:55	1
Terphenyl-d14	84		25 - 150	12/02/16 07:34	12/02/16 21:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Arsenic	6.2		0.62	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Barium	87		0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Beryllium	0.49		0.25	0.054	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Boron	4.4	B	3.1	0.43	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Cadmium	0.29		0.12	0.036	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Calcium	7800		12	4.0	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Chromium	15	B	0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/03/16 06:06	1
Cobalt	11		0.31	0.070	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Copper	13		0.62	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Iron	14000	B	12	4.8	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Lead	11		0.31	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Magnesium	4700	B	6.2	2.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Manganese	570	B	0.62	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Nickel	25		0.62	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Potassium	750	B	31	5.1	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Selenium	0.59	J	0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Sodium	87	B	62	8.2	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Vanadium	24		0.31	0.091	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1
Zinc	45		1.2	0.39	mg/Kg	☼	11/29/16 15:07	12/01/16 19:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:23	1
Boron	0.17	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Iron	<0.40		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Manganese	0.34		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Nickel	0.022	J	0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:23	1
Zinc	0.034	J	0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 20:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 11:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 11:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	11/29/16 14:30	11/30/16 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		11/30/16 13:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0096	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Tetrachloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 120	11/29/16 12:20	12/02/16 15:49	1
Dibromofluoromethane	99		75 - 120	11/29/16 12:20	12/02/16 15:49	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/29/16 12:20	12/02/16 15:49	1
Toluene-d8 (Surr)	104		75 - 123	11/29/16 12:20	12/02/16 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Naphthalene	0.062		0.040	0.0062	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Methylnaphthalene	0.10		0.081	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Acenaphthylene	0.017 J		0.040	0.0053	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Acenaphthene	0.010 J		0.040	0.0072	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Dibenzofuran	0.076 J		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Fluorene	0.012 J		0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Phenanthrene	1.1		0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Anthracene	0.22		0.040	0.0067	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Chrysene	2.8		0.040	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Indeno[1,2,3-cd]pyrene	1.3		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Dibenz(a,h)anthracene	0.40		0.040	0.0077	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
Benzo[g,h,i]perylene	0.97		0.040	0.013	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/02/16 07:34	12/02/16 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/02/16 07:34	12/02/16 22:24	1
Phenol-d5	94		36 - 123	12/02/16 07:34	12/02/16 22:24	1
Nitrobenzene-d5	77		33 - 124	12/02/16 07:34	12/02/16 22:24	1
2-Fluorobiphenyl	82		42 - 115	12/02/16 07:34	12/02/16 22:24	1
2,4,6-Tribromophenol	69		25 - 130	12/02/16 07:34	12/02/16 22:24	1
Terphenyl-d14	92		25 - 150	12/02/16 07:34	12/02/16 22:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5.6		0.20	0.037	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5
Pyrene	4.9		0.20	0.040	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5
Benzo[a]anthracene	2.2		0.20	0.027	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5
Benzo[b]fluoranthene	3.3		0.20	0.043	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5
Benzo[k]fluoranthene	0.99		0.20	0.059	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5
Benzo[a]pyrene	2.1		0.20	0.039	mg/Kg	☼	12/02/16 07:34	12/05/16 23:28	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	18		6.0	1.3	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Arsenic	19		3.0	1.4	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Barium	130		3.0	0.55	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Beryllium	1.9		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Boron	61	B	15	2.1	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Cadmium	3.7		0.60	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Calcium	15000		60	19	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Chromium	19	B	3.0	0.52	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Cobalt	9.6		1.5	0.34	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Copper	100		3.0	0.65	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Iron	61000	B	60	23	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Lead	1900		1.5	0.75	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Magnesium	1800	B	30	12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Manganese	870	B	3.0	0.60	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Nickel	26		3.0	0.82	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Potassium	800	B	150	25	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Selenium	4.3		3.0	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Silver	0.35	J	1.5	0.35	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Sodium	280	J B	300	40	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Thallium	<3.0		3.0	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Vanadium	34		1.5	0.44	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5
Zinc	980		6.0	1.9	mg/Kg	☼	11/29/16 15:07	12/01/16 19:35	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.6

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:28	1
Boron	0.36	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:28	1
Cadmium	0.0066		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:28	1
Iron	0.20	J	0.40	0.20	mg/L		12/02/16 14:06	12/03/16 21:28	1
Lead	0.96		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 21:28	1
Manganese	1.1		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 21:28	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:28	1
Zinc	0.83		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 21:28	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:10	12/05/16 20:39	1
Lead	0.22		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 20:39	1
Manganese	0.066		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 20:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.066		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:39	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.018		0.0060	0.0060	mg/L		12/02/16 14:10	12/05/16 17:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.020	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4		0.2	0.2	SU			11/30/16 13:35	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	11/29/16 12:20	12/02/16 16:13	1
Dibromofluoromethane	96		75 - 120	11/29/16 12:20	12/02/16 16:13	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 134	11/29/16 12:20	12/02/16 16:13	1
Toluene-d8 (Surr)	101		75 - 123	11/29/16 12:20	12/02/16 16:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	12/02/16 07:34	12/02/16 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		40 - 130	12/02/16 07:34	12/02/16 22:53	1
Phenol-d5	98		36 - 123	12/02/16 07:34	12/02/16 22:53	1
Nitrobenzene-d5	80		33 - 124	12/02/16 07:34	12/02/16 22:53	1
2-Fluorobiphenyl	85		42 - 115	12/02/16 07:34	12/02/16 22:53	1
2,4,6-Tribromophenol	54		25 - 130	12/02/16 07:34	12/02/16 22:53	1
Terphenyl-d14	89		25 - 150	12/02/16 07:34	12/02/16 22:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Arsenic	2.3		0.62	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Barium	100		0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Beryllium	0.54		0.25	0.054	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Boron	4.5 B		3.1	0.44	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Cadmium	0.32		0.12	0.036	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Calcium	9100		12	4.0	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Chromium	19 B		0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/03/16 06:13	1
Cobalt	12		0.31	0.071	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Copper	12		0.62	0.14	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Iron	16000 B		12	4.8	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Lead	12		0.31	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Magnesium	5900 B		6.2	2.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Manganese	610 B		0.62	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Nickel	27		0.62	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Potassium	1100 B		31	5.1	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Selenium	0.46 J		0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Sodium	390 B		62	8.2	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Vanadium	20		0.31	0.091	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1
Zinc	66		1.2	0.40	mg/Kg	☼	11/29/16 15:07	12/01/16 19:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:33	1
Boron	0.090 J B		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 21:33	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:33	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:33	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 21:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 21:33	1
Manganese	0.15		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:33	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:33	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 21:33	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:33	1
Zinc	0.023	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 21:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.40		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 20:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.021	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			11/30/16 13:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	11/29/16 12:20	12/02/16 16:38	1
Dibromofluoromethane	99		75 - 120	11/29/16 12:20	12/02/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 134	11/29/16 12:20	12/02/16 16:38	1
Toluene-d8 (Surr)	100		75 - 123	11/29/16 12:20	12/02/16 16:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Phenanthrene	0.0075	J	0.038	0.0054	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Fluoranthene	0.026	J	0.038	0.0072	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Pyrene	0.026	J	0.038	0.0077	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Benzo[a]anthracene	0.022	J	0.038	0.0052	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Benzo[k]fluoranthene	0.013	J	0.038	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Benzo[a]pyrene	0.027	J	0.038	0.0075	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/02/16 07:34	12/02/16 23:22	1
Phenol-d5	95		36 - 123	12/02/16 07:34	12/02/16 23:22	1
Nitrobenzene-d5	78		33 - 124	12/02/16 07:34	12/02/16 23:22	1
2-Fluorobiphenyl	83		42 - 115	12/02/16 07:34	12/02/16 23:22	1
2,4,6-Tribromophenol	46		25 - 130	12/02/16 07:34	12/02/16 23:22	1
Terphenyl-d14	87		25 - 150	12/02/16 07:34	12/02/16 23:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Arsenic	4.2		0.59	0.27	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Barium	71		0.59	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Beryllium	0.47		0.24	0.051	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Boron	3.6	B	3.0	0.41	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Cadmium	0.18		0.12	0.034	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Calcium	4100		12	3.8	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	11/29/16 15:07	12/03/16 06:20	1
Cobalt	7.0		0.30	0.067	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Copper	10		0.59	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Iron	13000	B	12	4.6	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Lead	13		0.30	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Magnesium	2300	B	5.9	2.4	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Manganese	400	B	0.59	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Nickel	17		0.59	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Potassium	680	B	30	4.8	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Selenium	0.58	J	0.59	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Sodium	53	J B	59	7.8	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Vanadium	18		0.30	0.086	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1
Zinc	45		1.2	0.37	mg/Kg	☼	11/29/16 15:07	12/01/16 19:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:38	1
Boron	0.16	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Iron	0.24	J	0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Manganese	0.17		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:38	1
Zinc	0.033	J	0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 21:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 11:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.020	0.010	mg/Kg	☼	11/29/16 14:30	11/30/16 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4		0.2	0.2	SU	-		11/30/16 13:40	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	11/29/16 12:20	12/02/16 17:03	1
Dibromofluoromethane	98		75 - 120	11/29/16 12:20	12/02/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	11/29/16 12:20	12/02/16 17:03	1
Toluene-d8 (Surr)	100		75 - 123	11/29/16 12:20	12/02/16 17:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/02/16 07:34	12/02/16 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/02/16 07:34	12/02/16 23:51	1
Phenol-d5	96		36 - 123	12/02/16 07:34	12/02/16 23:51	1
Nitrobenzene-d5	78		33 - 124	12/02/16 07:34	12/02/16 23:51	1
2-Fluorobiphenyl	82		42 - 115	12/02/16 07:34	12/02/16 23:51	1
2,4,6-Tribromophenol	44		25 - 130	12/02/16 07:34	12/02/16 23:51	1
Terphenyl-d14	94		25 - 150	12/02/16 07:34	12/02/16 23:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Arsenic	3.6		0.60	0.28	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Barium	110		0.60	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Beryllium	0.47		0.24	0.052	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Boron	2.8	J B	3.0	0.42	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Cadmium	0.12		0.12	0.035	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Calcium	8000		12	3.9	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Chromium	14	B	0.60	0.10	mg/Kg	☼	11/29/16 15:07	12/03/16 06:26	1
Cobalt	7.5		0.30	0.068	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Copper	9.6		0.60	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Iron	14000	B	12	4.7	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Lead	9.3		0.30	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Magnesium	5000	B	6.0	2.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Manganese	250	B	0.60	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Nickel	14		0.60	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Potassium	690	B	30	4.9	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Selenium	0.43	J	0.60	0.30	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Sodium	72	B	60	8.0	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Vanadium	18		0.30	0.088	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1
Zinc	43		1.2	0.38	mg/Kg	☼	11/29/16 15:07	12/01/16 19:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:43	1
Boron	0.095	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:43	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:43	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 21:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 21:43	1
Manganese	0.67		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:43	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:43	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 21:43	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:43	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 21:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 21:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.010	mg/Kg	☼	11/29/16 14:30	11/30/16 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			11/30/16 13:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0094	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,1-Dichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	11/29/16 12:20	12/02/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	11/29/16 12:20	12/02/16 17:28	1
Dibromofluoromethane	101		75 - 120	11/29/16 12:20	12/02/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	11/29/16 12:20	12/02/16 17:28	1
Toluene-d8 (Surr)	100		75 - 123	11/29/16 12:20	12/02/16 17:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Naphthalene	0.22		0.040	0.0061	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Methylnaphthalene	0.20		0.080	0.0073	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Acenaphthylene	0.45		0.040	0.0053	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Acenaphthene	0.21		0.040	0.0072	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Dibenzofuran	0.25		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Fluorene	0.28		0.040	0.0056	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Anthracene	0.63		0.040	0.0067	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Carbazole	0.42		0.20	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Benzo[a]anthracene	2.0		0.040	0.0054	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Chrysene	2.1		0.040	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/02/16 07:34	12/03/16 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		40 - 130				12/02/16 07:34	12/03/16 03:44	1
Phenol-d5	104		36 - 123				12/02/16 07:34	12/03/16 03:44	1
Nitrobenzene-d5	87		33 - 124				12/02/16 07:34	12/03/16 03:44	1
2-Fluorobiphenyl	89		42 - 115				12/02/16 07:34	12/03/16 03:44	1
2,4,6-Tribromophenol	74		25 - 130				12/02/16 07:34	12/03/16 03:44	1
Terphenyl-d14	106		25 - 150				12/02/16 07:34	12/03/16 03:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.25		0.20	0.028	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Fluoranthene	3.8		0.20	0.037	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Pyrene	4.0		0.20	0.040	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Benzo[b]fluoranthene	4.8		0.20	0.043	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Benzo[k]fluoranthene	1.8		0.20	0.059	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Benzo[a]pyrene	3.0		0.20	0.039	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Indeno[1,2,3-cd]pyrene	1.6		0.20	0.052	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Dibenz(a,h)anthracene	0.47		0.20	0.039	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5
Benzo[g,h,i]perylene	1.4		0.20	0.064	mg/Kg	☼	12/02/16 07:34	12/05/16 23:53	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3	J	6.1	1.3	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Arsenic	11		3.0	1.4	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Barium	190		3.0	0.56	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Beryllium	1.9		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Boron	50	B	15	2.1	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Cadmium	2.2		0.61	0.18	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Calcium	67000		61	20	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Chromium	19	B	3.0	0.52	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Cobalt	7.7		1.5	0.34	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Copper	63		3.0	0.66	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Iron	47000	B	61	23	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Lead	270		1.5	0.76	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Magnesium	6400	B	30	12	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Manganese	840	B	3.0	0.60	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Nickel	25		3.0	0.83	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Potassium	1600	B	150	25	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Selenium	2.4	J	3.0	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Silver	<1.5		1.5	0.36	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Sodium	460	B	300	40	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Thallium	1.5	J	3.0	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Vanadium	28		1.5	0.44	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5
Zinc	850		6.1	1.9	mg/Kg	☼	11/29/16 15:07	12/01/16 19:58	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.7

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Boron	0.32	J B	0.50	0.050	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Cadmium	0.0068		0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Iron	<0.40		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Lead	0.016		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Manganese	1.0		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Nickel	0.020	J	0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 21:47	1
Zinc	1.9		0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 21:47	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/02/16 14:10	12/05/16 21:21	1
Lead	0.089		0.0075	0.0075	mg/L	-	12/02/16 14:10	12/05/16 21:21	1
Manganese	0.21		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 21:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.018	0.0095	mg/Kg	☼	11/29/16 14:30	11/30/16 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU	-		11/30/16 13:44	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0085	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	11/29/16 12:20	12/02/16 17:52	1
Dibromofluoromethane	96		75 - 120	11/29/16 12:20	12/02/16 17:52	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/29/16 12:20	12/02/16 17:52	1
Toluene-d8 (Surr)	100		75 - 123	11/29/16 12:20	12/02/16 17:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	12/02/16 07:34	12/03/16 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		40 - 130	12/02/16 07:34	12/03/16 03:15	1
Phenol-d5	97		36 - 123	12/02/16 07:34	12/03/16 03:15	1
Nitrobenzene-d5	81		33 - 124	12/02/16 07:34	12/03/16 03:15	1
2-Fluorobiphenyl	86		42 - 115	12/02/16 07:34	12/03/16 03:15	1
2,4,6-Tribromophenol	73		25 - 130	12/02/16 07:34	12/03/16 03:15	1
Terphenyl-d14	91		25 - 150	12/02/16 07:34	12/03/16 03:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Arsenic	2.7		0.63	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Barium	110		0.63	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Beryllium	0.54		0.25	0.055	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Boron	3.4 B		3.2	0.44	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Cadmium	0.18		0.13	0.037	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Calcium	11000		13	4.1	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Chromium	19 B		0.63	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Cobalt	8.6		0.32	0.071	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Copper	11		0.63	0.14	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Iron	15000 B		13	4.9	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Lead	9.4		0.32	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Magnesium	7500 B		6.3	2.6	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Manganese	440 B		0.63	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Nickel	21		0.63	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Potassium	900 B		32	5.2	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Selenium	0.52 J		0.63	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Silver	<0.32		0.32	0.074	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Sodium	82 B		63	8.3	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Vanadium	18		0.32	0.092	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1
Zinc	59		1.3	0.40	mg/Kg	☼	11/29/16 15:07	12/01/16 20:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 21:52	1
Boron	0.087 J B		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 21:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 77.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 21:52	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:52	1
Cobalt	0.011	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:52	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 21:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 21:52	1
Manganese	4.0		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:52	1
Nickel	0.024	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:52	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 21:52	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 21:52	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 21:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.46		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 21:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.021	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			11/30/16 13:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 75.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	11/29/16 12:20	12/03/16 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120	11/29/16 12:20	12/03/16 12:05	1
Dibromofluoromethane	96		75 - 120	11/29/16 12:20	12/03/16 12:05	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 134	11/29/16 12:20	12/03/16 12:05	1
Toluene-d8 (Surr)	103		75 - 123	11/29/16 12:20	12/03/16 12:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.096	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 75.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Pyrene	<0.043		0.043	0.0086	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 75.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	12/02/16 07:34	12/03/16 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/02/16 07:34	12/03/16 00:20	1
Phenol-d5	94		36 - 123	12/02/16 07:34	12/03/16 00:20	1
Nitrobenzene-d5	75		33 - 124	12/02/16 07:34	12/03/16 00:20	1
2-Fluorobiphenyl	80		42 - 115	12/02/16 07:34	12/03/16 00:20	1
2,4,6-Tribromophenol	26		25 - 130	12/02/16 07:34	12/03/16 00:20	1
Terphenyl-d14	89		25 - 150	12/02/16 07:34	12/03/16 00:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.27	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Arsenic	1.8		0.64	0.30	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Barium	180		0.64	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Beryllium	0.61		0.26	0.056	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Boron	3.0	J B	3.2	0.45	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Cadmium	0.20		0.13	0.037	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Calcium	9400		13	4.1	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Chromium	17	B	0.64	0.11	mg/Kg	☼	11/29/16 15:07	12/03/16 06:33	1
Cobalt	4.9		0.32	0.073	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Copper	48		0.64	0.14	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Iron	12000	B	13	4.9	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Lead	160		0.32	0.16	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Magnesium	2600	B	6.4	2.6	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Manganese	190	B	0.64	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Nickel	18		0.64	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Potassium	1000	B	32	5.2	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Selenium	<0.64		0.64	0.32	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Sodium	190	B	64	8.5	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Vanadium	15		0.32	0.094	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1
Zinc	93		1.3	0.41	mg/Kg	☼	11/29/16 15:07	12/01/16 20:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:05	1
Boron	0.13	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 75.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 22:05	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:05	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:05	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 22:05	1
Lead	0.028		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 22:05	1
Manganese	0.13		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:05	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:05	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 22:05	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:05	1
Zinc	0.045	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 22:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.25		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 21:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.021	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			11/30/16 13:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Benzene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Chloroform	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,1-Dichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Ethylbenzene	<0.0021		0.0021	0.00098	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	11/29/16 12:20	12/02/16 18:41	1
Dibromofluoromethane	102		75 - 120	11/29/16 12:20	12/02/16 18:41	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	11/29/16 12:20	12/02/16 18:41	1
Toluene-d8 (Surr)	98		75 - 123	11/29/16 12:20	12/02/16 18:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.095	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
1,4-Dichlorobenzene	<0.21		0.21	0.055	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Chlorophenol	<0.21		0.21	0.073	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Naphthalene	<0.042		0.042	0.0066	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,6-Dinitrotoluene	<0.21		0.21	0.084	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Dimethyl phthalate	<0.21		0.21	0.056	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
2,4-Dinitrotoluene	<0.21		0.21	0.068	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Acenaphthene	<0.042		0.042	0.0077	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Pyrene	<0.042		0.042	0.0085	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.060	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Di-n-octyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	12/02/16 07:34	12/03/16 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/02/16 07:34	12/03/16 00:49	1
Phenol-d5	97		36 - 123	12/02/16 07:34	12/03/16 00:49	1
Nitrobenzene-d5	80		33 - 124	12/02/16 07:34	12/03/16 00:49	1
2-Fluorobiphenyl	84		42 - 115	12/02/16 07:34	12/03/16 00:49	1
2,4,6-Tribromophenol	17	X	25 - 130	12/02/16 07:34	12/03/16 00:49	1
Terphenyl-d14	90		25 - 150	12/02/16 07:34	12/03/16 00:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Arsenic	3.7		0.62	0.29	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Barium	99		0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Beryllium	0.54		0.25	0.054	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Boron	3.9	B	3.1	0.43	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Cadmium	0.13		0.12	0.036	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Calcium	14000		12	4.0	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Chromium	18	B	0.62	0.11	mg/Kg	☼	11/29/16 15:07	12/03/16 06:40	1
Cobalt	9.5		0.31	0.070	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Copper	11		0.62	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Iron	17000	B	12	4.8	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Lead	11		0.31	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Magnesium	9300	B	6.2	2.5	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Manganese	250	B	0.62	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Nickel	18		0.62	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Potassium	990	B	31	5.1	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Selenium	0.65		0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Sodium	150	B	62	8.2	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Vanadium	23		0.31	0.091	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1
Zinc	59		1.2	0.39	mg/Kg	☼	11/29/16 15:07	12/01/16 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:10	1
Boron	0.090	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Cobalt	0.026		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Iron	<0.40		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Manganese	2.9		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Nickel	0.017	J	0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Selenium	0.020	J	0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:10	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 21:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.021	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		11/30/16 13:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.026		0.026	0.011	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Benzene	<0.0026		0.0026	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Bromodichloromethane	<0.0026		0.0026	0.00052	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Bromoform	<0.0026		0.0026	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
2-Butanone (MEK)	<0.0064		0.0064	0.0029	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Carbon tetrachloride	<0.0026		0.0026	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Chlorobenzene	<0.0026		0.0026	0.00095	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Chloroform	<0.0026		0.0026	0.00089	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
cis-1,2-Dichloroethene	<0.0026		0.0026	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
cis-1,3-Dichloropropene	<0.0026		0.0026	0.00078	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Dibromochloromethane	<0.0026		0.0026	0.00084	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,1-Dichloroethane	<0.0026		0.0026	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,1-Dichloroethene	<0.0026		0.0026	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,2-Dichloropropane	<0.0026		0.0026	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,3-Dichloropropene, Total	<0.0026		0.0026	0.00090	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Ethylbenzene	<0.0026		0.0026	0.0012	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Methyl tert-butyl ether	<0.0026		0.0026	0.00075	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Styrene	<0.0026		0.0026	0.00078	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026	0.00082	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Tetrachloroethene	<0.0026		0.0026	0.00088	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Toluene	<0.0026		0.0026	0.00065	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
trans-1,2-Dichloroethene	<0.0026		0.0026	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
trans-1,3-Dichloropropene	<0.0026		0.0026	0.00090	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,1,1-Trichloroethane	<0.0026		0.0026	0.00086	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
1,1,2-Trichloroethane	<0.0026		0.0026	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Trichloroethene	<0.0026		0.0026	0.00087	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Vinyl acetate	<0.0064		0.0064	0.0022	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Vinyl chloride	<0.0026		0.0026	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	☼	11/29/16 12:20	12/02/16 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	11/29/16 12:20	12/02/16 19:06	1
Dibromofluoromethane	99		75 - 120	11/29/16 12:20	12/02/16 19:06	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134	11/29/16 12:20	12/02/16 19:06	1
Toluene-d8 (Surr)	102		75 - 123	11/29/16 12:20	12/02/16 19:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Naphthalene	0.025	J	0.040	0.0062	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Methylnaphthalene	0.037	J	0.081	0.0074	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Acenaphthylene	0.016	J	0.040	0.0053	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Acenaphthene	0.090		0.040	0.0072	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Dibenzofuran	0.053	J	0.20	0.047	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Fluorene	0.074		0.040	0.0057	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Phenanthrene	0.69		0.040	0.0056	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Anthracene	0.14		0.040	0.0067	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Carbazole	0.17	J	0.20	0.10	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Fluoranthene	0.86		0.040	0.0075	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Pyrene	0.72		0.040	0.0080	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Benzo[a]anthracene	0.41		0.040	0.0054	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.46		0.040	0.011	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Benzo[b]fluoranthene	0.58		0.040	0.0087	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Benzo[k]fluoranthene	0.27		0.040	0.012	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Benzo[a]pyrene	0.40		0.040	0.0078	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Indeno[1,2,3-cd]pyrene	0.24		0.040	0.010	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Dibenz(a,h)anthracene	0.080		0.040	0.0078	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
Benzo[g,h,i]perylene	0.25		0.040	0.013	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/02/16 07:29	12/02/16 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/02/16 07:29	12/02/16 23:34	1
Phenol-d5	108		36 - 123	12/02/16 07:29	12/02/16 23:34	1
Nitrobenzene-d5	85		33 - 124	12/02/16 07:29	12/02/16 23:34	1
2-Fluorobiphenyl	82		42 - 115	12/02/16 07:29	12/02/16 23:34	1
2,4,6-Tribromophenol	54		25 - 130	12/02/16 07:29	12/02/16 23:34	1
Terphenyl-d14	88		25 - 150	12/02/16 07:29	12/02/16 23:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1	J	6.1	1.3	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Arsenic	9.6		3.1	1.4	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Barium	120		3.1	0.56	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Beryllium	1.5		1.2	0.26	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Boron	14	J B	15	2.1	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Cadmium	1.2		0.61	0.18	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Calcium	5100		61	20	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Chromium	26	B	3.1	0.53	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Cobalt	9.0		1.5	0.34	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Copper	100		3.1	0.66	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Iron	61000	B	61	24	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Lead	710		1.5	0.76	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Magnesium	960	B	31	12	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Manganese	680	B	3.1	0.60	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Nickel	30		3.1	0.83	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Potassium	610	B	150	25	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Selenium	3.5		3.1	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Silver	<1.5		1.5	0.36	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Sodium	84	J B	310	40	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Thallium	<3.1		3.1	1.5	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Vanadium	33		1.5	0.45	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5
Zinc	380		6.1	1.9	mg/Kg	☼	11/29/16 15:07	12/01/16 20:13	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:15	1
Boron	0.073	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 78.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Iron	0.43		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Lead	0.12		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Manganese	0.40		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:15	1
Zinc	0.30	J	0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:15	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.34		0.0075	0.0075	mg/L	-	12/02/16 14:10	12/05/16 21:48	1
Manganese	0.55		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 21:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.013		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0083		0.0060	0.0060	mg/L	-	12/02/16 14:10	12/05/16 17:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.018	0.0096	mg/Kg	☼	11/29/16 14:30	11/30/16 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.2	0.2	SU	-		11/30/16 13:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	11/29/16 12:20	12/02/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	11/29/16 12:20	12/02/16 19:31	1
Dibromofluoromethane	94		75 - 120	11/29/16 12:20	12/02/16 19:31	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 134	11/29/16 12:20	12/02/16 19:31	1
Toluene-d8 (Surr)	102		75 - 123	11/29/16 12:20	12/02/16 19:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Phenanthrene	0.011	J	0.041	0.0058	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Fluoranthene	0.017	J	0.041	0.0077	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Pyrene	0.016	J	0.041	0.0082	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Benzo[a]anthracene	0.0097	J	0.041	0.0056	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Benzo[b]fluoranthene	0.017	J	0.041	0.0089	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Benzo[a]pyrene	0.014	J	0.041	0.0080	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	12/02/16 07:29	12/02/16 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		40 - 130	12/02/16 07:29	12/02/16 23:06	1
Phenol-d5	109		36 - 123	12/02/16 07:29	12/02/16 23:06	1
Nitrobenzene-d5	89		33 - 124	12/02/16 07:29	12/02/16 23:06	1
2-Fluorobiphenyl	84		42 - 115	12/02/16 07:29	12/02/16 23:06	1
2,4,6-Tribromophenol	69		25 - 130	12/02/16 07:29	12/02/16 23:06	1
Terphenyl-d14	96		25 - 150	12/02/16 07:29	12/02/16 23:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Arsenic	4.8		0.61	0.28	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Barium	71		0.61	0.11	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Beryllium	0.46		0.24	0.053	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Boron	2.2	J B	3.0	0.43	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Cadmium	0.19		0.12	0.035	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Calcium	3100		12	3.9	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Chromium	16	B	0.61	0.10	mg/Kg	☼	11/29/16 15:07	12/03/16 06:47	1
Cobalt	8.1		0.30	0.069	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Copper	11		0.61	0.13	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Iron	14000	B	12	4.7	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Lead	10		0.30	0.15	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Magnesium	2000	B	6.1	2.5	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Manganese	440	B	0.61	0.12	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Nickel	19		0.61	0.17	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Potassium	730	B	30	5.0	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Selenium	0.41	J	0.61	0.30	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Sodium	39	J B	61	8.0	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Vanadium	21		0.30	0.089	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1
Zinc	49		1.2	0.39	mg/Kg	☼	11/29/16 15:07	12/01/16 20:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:19	1
Boron	0.050	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Iron	0.28	J	0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Manganese	0.011	J	0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Selenium	0.021	J	0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:19	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.021	0.011	mg/Kg	☼	11/29/16 14:30	11/30/16 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.2	0.2	SU	-		11/30/16 13:56	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

GC/MS VOA

Prep Batch: 363054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	5035	
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	5035	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	5035	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	5035	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	5035	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	5035	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	5035	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	5035	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	5035	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	5035	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	5035	
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	5035	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 363336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	8260B	363054
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	8260B	363054
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	8260B	363054
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	8260B	363054
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	8260B	363054
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	8260B	363054
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	8260B	363054
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	8260B	363054
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	8260B	363054
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	8260B	363054
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	8260B	363054
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	8260B	363054
MB 500-363336/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-363336/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-363336/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 363464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	8260B	363054
MB 500-363464/29	Method Blank	Total/NA	Solid	8260B	
LCS 500-363464/3	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 363273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	3541	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	3541	
MB 500-363273/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-363273/2-A	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 363274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

GC/MS Semi VOA (Continued)

Prep Batch: 363274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	3541	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	3541	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	3541	
500-120663-4 - DL	1314V3-25-B06 (0-6)	Total/NA	Solid	3541	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	3541	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	3541	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	3541	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	3541	
500-120663-8 - DL	1314V3-25-B01 (0-6)	Total/NA	Solid	3541	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	3541	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	3541	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	3541	
MB 500-363274/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-363274/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	3541	
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	3541	

Analysis Batch: 363418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	8270D	363274
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	8270D	363274
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	8270D	363274
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	8270D	363274
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	8270D	363274
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	8270D	363274
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	8270D	363274
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	8270D	363274
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	8270D	363274
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	8270D	363274
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	8270D	363274
MB 500-363273/1-A	Method Blank	Total/NA	Solid	8270D	363273
MB 500-363274/1-A	Method Blank	Total/NA	Solid	8270D	363274
LCS 500-363273/2-A	Lab Control Sample	Total/NA	Solid	8270D	363273
LCS 500-363274/2-A	Lab Control Sample	Total/NA	Solid	8270D	363274
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	8270D	363274
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	8270D	363274

Analysis Batch: 363423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	8270D	363273
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	8270D	363273

Analysis Batch: 363689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-4 - DL	1314V3-25-B06 (0-6)	Total/NA	Solid	8270D	363274
500-120663-8 - DL	1314V3-25-B01 (0-6)	Total/NA	Solid	8270D	363274

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals

Prep Batch: 362796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	7471B	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	7471B	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	7471B	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	7471B	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	7471B	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	7471B	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	7471B	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	7471B	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	7471B	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	7471B	
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	7471B	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	7471B	
MB 500-362796/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-362796/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	

Prep Batch: 362833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	3050B	
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	3050B	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	3050B	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	3050B	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	3050B	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	3050B	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	3050B	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	3050B	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	3050B	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	3050B	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	3050B	
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	3050B	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	3050B	
MB 500-362833/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-362833/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	3050B	
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	3050B	
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	3050B	

Analysis Batch: 362945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	362796
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	7471B	362796
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	7471B	362796
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	7471B	362796
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	7471B	362796
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	7471B	362796
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	7471B	362796
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	7471B	362796
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	7471B	362796

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals (Continued)

Analysis Batch: 362945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	7471B	362796
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	7471B	362796
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	7471B	362796
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	7471B	362796
MB 500-362796/12-A	Method Blank	Total/NA	Solid	7471B	362796
LCS 500-362796/13-A	Lab Control Sample	Total/NA	Solid	7471B	362796
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	362796
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	362796
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	7471B	362796

Leach Batch: 363172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	1311	
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	1311	
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	1311	
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	1311	
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	1311	
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	1311	
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	1311	
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	1311	
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	1311	
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	1311	
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	1311	
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	1311	
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	1311	
LB 500-363172/1-B	Method Blank	TCLP	Solid	1311	
LB 500-363172/1-C	Method Blank	TCLP	Solid	1311	
500-120663-1 MS	1314V3-25-B03 (0-8)	TCLP	Solid	1311	
500-120663-1 DU	1314V3-25-B03 (0-8)	TCLP	Solid	1311	

Leach Batch: 363174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	SPLP East	Solid	1312	
500-120663-3	1314V3-25-B04 (6-12)	SPLP East	Solid	1312	
500-120663-4	1314V3-25-B06 (0-6)	SPLP East	Solid	1312	
500-120663-5	1314V3-25-B06 (6-12)	SPLP East	Solid	1312	
500-120663-6	1314V3-25-B07 (0-6)	SPLP East	Solid	1312	
500-120663-7	1314V3-25-B07 (6-12)	SPLP East	Solid	1312	
500-120663-8	1314V3-25-B01 (0-6)	SPLP East	Solid	1312	
500-120663-9	1314V3-25-B01 (6-12)	SPLP East	Solid	1312	
500-120663-10	1314V3-25-B02 (0-6)	SPLP East	Solid	1312	
500-120663-11	1314V3-25-B02 (6-12)	SPLP East	Solid	1312	
500-120663-12	1314V3-25-B05 (0-6)	SPLP East	Solid	1312	
LB 500-363174/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 363271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	6010B	362833
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	6010B	362833
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	6010B	362833

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals (Continued)

Analysis Batch: 363271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	6010B	362833
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	6010B	362833
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	6010B	362833
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	6010B	362833
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	6010B	362833
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	6010B	362833
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	6010B	362833
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	6010B	362833
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	6010B	362833
MB 500-362833/1-A	Method Blank	Total/NA	Solid	6010B	362833
LCS 500-362833/2-A	Lab Control Sample	Total/NA	Solid	6010B	362833
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833

Prep Batch: 363342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363172
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	7470A	363172
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	7470A	363172
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	7470A	363172
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	7470A	363172
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	7470A	363172
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	7470A	363172
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	7470A	363172
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	7470A	363172
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	7470A	363172
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	7470A	363172
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	7470A	363172
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	7470A	363172
LB 500-363172/1-B	Method Blank	TCLP	Solid	7470A	363172
MB 500-363342/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-363342/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-120663-1 MS	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363172
500-120663-1 DU	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363172

Prep Batch: 363379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	3010A	363172
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	3010A	363172
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	3010A	363172
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	3010A	363172
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	3010A	363172
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	3010A	363172
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	3010A	363172
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	3010A	363172
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	3010A	363172
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	3010A	363172
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	3010A	363172
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	3010A	363172
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	3010A	363172

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals (Continued)

Prep Batch: 363379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-363172/1-C	Method Blank	TCLP	Solid	3010A	363172
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 363388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	SPLP East	Solid	3010A	363174
500-120663-3	1314V3-25-B04 (6-12)	SPLP East	Solid	3010A	363174
500-120663-4	1314V3-25-B06 (0-6)	SPLP East	Solid	3010A	363174
500-120663-5	1314V3-25-B06 (6-12)	SPLP East	Solid	3010A	363174
500-120663-6	1314V3-25-B07 (0-6)	SPLP East	Solid	3010A	363174
500-120663-7	1314V3-25-B07 (6-12)	SPLP East	Solid	3010A	363174
500-120663-8	1314V3-25-B01 (0-6)	SPLP East	Solid	3010A	363174
500-120663-9	1314V3-25-B01 (6-12)	SPLP East	Solid	3010A	363174
500-120663-10	1314V3-25-B02 (0-6)	SPLP East	Solid	3010A	363174
500-120663-11	1314V3-25-B02 (6-12)	SPLP East	Solid	3010A	363174
500-120663-12	1314V3-25-B05 (0-6)	SPLP East	Solid	3010A	363174
LB 500-363174/1-B	Method Blank	SPLP East	Solid	3010A	363174
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 363473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	6010B	362833
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	6010B	362833
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	6010B	362833
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	6010B	362833
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	6010B	362833
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	6010B	362833
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	6010B	362833
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	6010B	362833
MB 500-362833/1-A	Method Blank	Total/NA	Solid	6010B	362833
LCS 500-362833/2-A	Lab Control Sample	Total/NA	Solid	6010B	362833
500-120663-1 MS	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-1 MSD	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	6010B	362833

Analysis Batch: 363547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	6010B	363379
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	6010B	363379
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	6010B	363379
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	6010B	363379
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	6010B	363379
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	6010B	363379
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	6010B	363379
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	6010B	363379
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	6010B	363379
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	6010B	363379
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	6010B	363379
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	6010B	363379
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	6010B	363379

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals (Continued)

Analysis Batch: 363547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-363172/1-C	Method Blank	TCLP	Solid	6010B	363379
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	6010B	363379

Analysis Batch: 363643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363342
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	7470A	363342
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	7470A	363342
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	7470A	363342
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	7470A	363342
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	7470A	363342
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	7470A	363342
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	7470A	363342
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	7470A	363342
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	7470A	363342
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	7470A	363342
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	7470A	363342
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	7470A	363342
LB 500-363172/1-B	Method Blank	TCLP	Solid	7470A	363342
MB 500-363342/12-A	Method Blank	Total/NA	Solid	7470A	363342
LCS 500-363342/13-A	Lab Control Sample	Total/NA	Solid	7470A	363342
500-120663-1 MS	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363342
500-120663-1 DU	1314V3-25-B03 (0-8)	TCLP	Solid	7470A	363342

Analysis Batch: 363685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	TCLP	Solid	6020A	363379
500-120663-2	1314V3-25-B04 (0-6)	TCLP	Solid	6020A	363379
500-120663-3	1314V3-25-B04 (6-12)	TCLP	Solid	6020A	363379
500-120663-4	1314V3-25-B06 (0-6)	TCLP	Solid	6020A	363379
500-120663-5	1314V3-25-B06 (6-12)	TCLP	Solid	6020A	363379
500-120663-6	1314V3-25-B07 (0-6)	TCLP	Solid	6020A	363379
500-120663-7	1314V3-25-B07 (6-12)	TCLP	Solid	6020A	363379
500-120663-8	1314V3-25-B01 (0-6)	TCLP	Solid	6020A	363379
500-120663-9	1314V3-25-B01 (6-12)	TCLP	Solid	6020A	363379
500-120663-10	1314V3-25-B02 (0-6)	TCLP	Solid	6020A	363379
500-120663-11	1314V3-25-B02 (6-12)	TCLP	Solid	6020A	363379
500-120663-12	1314V3-25-B05 (0-6)	TCLP	Solid	6020A	363379
500-120663-13	1314V3-25-B05 (6-12)	TCLP	Solid	6020A	363379
LB 500-363172/1-C	Method Blank	TCLP	Solid	6020A	363379
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	6020A	363379

Analysis Batch: 363732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	SPLP East	Solid	6010B	363388
500-120663-3	1314V3-25-B04 (6-12)	SPLP East	Solid	6010B	363388
500-120663-4	1314V3-25-B06 (0-6)	SPLP East	Solid	6010B	363388
500-120663-5	1314V3-25-B06 (6-12)	SPLP East	Solid	6010B	363388
500-120663-6	1314V3-25-B07 (0-6)	SPLP East	Solid	6010B	363388
500-120663-7	1314V3-25-B07 (6-12)	SPLP East	Solid	6010B	363388
500-120663-8	1314V3-25-B01 (0-6)	SPLP East	Solid	6010B	363388

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Metals (Continued)

Analysis Batch: 363732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-9	1314V3-25-B01 (6-12)	SPLP East	Solid	6010B	363388
500-120663-10	1314V3-25-B02 (0-6)	SPLP East	Solid	6010B	363388
500-120663-11	1314V3-25-B02 (6-12)	SPLP East	Solid	6010B	363388
500-120663-12	1314V3-25-B05 (0-6)	SPLP East	Solid	6010B	363388
LB 500-363174/1-B	Method Blank	SPLP East	Solid	6010B	363388
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	6010B	363388

Analysis Batch: 363753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-4	1314V3-25-B06 (0-6)	SPLP East	Solid	6020A	363388
500-120663-12	1314V3-25-B05 (0-6)	SPLP East	Solid	6020A	363388
LB 500-363174/1-B	Method Blank	SPLP East	Solid	6020A	363388
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	6020A	363388

General Chemistry

Analysis Batch: 362966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	Moisture	
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	Moisture	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	Moisture	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	Moisture	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	Moisture	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	Moisture	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	Moisture	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	Moisture	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	Moisture	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	Moisture	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	Moisture	
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	Moisture	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	Moisture	
500-120663-1 DU	1314V3-25-B03 (0-8)	Total/NA	Solid	Moisture	

Analysis Batch: 363006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120663-1	1314V3-25-B03 (0-8)	Total/NA	Solid	9045D	
500-120663-2	1314V3-25-B04 (0-6)	Total/NA	Solid	9045D	
500-120663-3	1314V3-25-B04 (6-12)	Total/NA	Solid	9045D	
500-120663-4	1314V3-25-B06 (0-6)	Total/NA	Solid	9045D	
500-120663-5	1314V3-25-B06 (6-12)	Total/NA	Solid	9045D	
500-120663-6	1314V3-25-B07 (0-6)	Total/NA	Solid	9045D	
500-120663-7	1314V3-25-B07 (6-12)	Total/NA	Solid	9045D	
500-120663-8	1314V3-25-B01 (0-6)	Total/NA	Solid	9045D	
500-120663-9	1314V3-25-B01 (6-12)	Total/NA	Solid	9045D	
500-120663-10	1314V3-25-B02 (0-6)	Total/NA	Solid	9045D	
500-120663-11	1314V3-25-B02 (6-12)	Total/NA	Solid	9045D	
500-120663-12	1314V3-25-B05 (0-6)	Total/NA	Solid	9045D	
500-120663-13	1314V3-25-B05 (6-12)	Total/NA	Solid	9045D	
500-120663-3 DU	1314V3-25-B04 (6-12)	Total/NA	Solid	9045D	
500-120663-13 DU	1314V3-25-B05 (6-12)	Total/NA	Solid	9045D	

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-120663-1	1314V3-25-B03 (0-8)	107	99	99	99
500-120663-2	1314V3-25-B04 (0-6)	109	97	99	104
500-120663-3	1314V3-25-B04 (6-12)	106	94	94	100
500-120663-4	1314V3-25-B06 (0-6)	113	99	99	104
500-120663-5	1314V3-25-B06 (6-12)	105	96	98	101
500-120663-6	1314V3-25-B07 (0-6)	106	99	98	100
500-120663-7	1314V3-25-B07 (6-12)	105	98	101	100
500-120663-8	1314V3-25-B01 (0-6)	104	101	102	100
500-120663-9	1314V3-25-B01 (6-12)	105	96	99	100
500-120663-10	1314V3-25-B02 (0-6)	111	96	98	103
500-120663-11	1314V3-25-B02 (6-12)	103	102	103	98
500-120663-12	1314V3-25-B05 (0-6)	107	99	100	102
500-120663-13	1314V3-25-B05 (6-12)	108	94	95	102
LCS 500-363336/5	Lab Control Sample	103	93	90	103
LCS 500-363464/3	Lab Control Sample	100	95	93	101
LCSD 500-363336/6	Lab Control Sample Dup	101	97	94	103
MB 500-363336/7	Method Blank	102	92	87	101
MB 500-363464/29	Method Blank	105	100	98	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-120663-1	1314V3-25-B03 (0-8)	100	95	76	80	76	88
500-120663-1 MS	1314V3-25-B03 (0-8)	104	49	77	85	66	98
500-120663-1 MSD	1314V3-25-B03 (0-8)	97	94	74	78	55	95
500-120663-2	1314V3-25-B04 (0-6)	106	96	81	84	72	87
500-120663-3	1314V3-25-B04 (6-12)	100	93	76	79	60	84
500-120663-4	1314V3-25-B06 (0-6)	101	94	77	82	69	92
500-120663-4 - DL	1314V3-25-B06 (0-6)	111	101	111	105	132 X	116
500-120663-5	1314V3-25-B06 (6-12)	107	98	80	85	54	89
500-120663-6	1314V3-25-B07 (0-6)	104	95	78	83	46	87
500-120663-7	1314V3-25-B07 (6-12)	103	96	78	82	44	94
500-120663-8	1314V3-25-B01 (0-6)	110	104	87	89	74	106
500-120663-8 - DL	1314V3-25-B01 (0-6)	97	88	99	94	121	105
500-120663-9	1314V3-25-B01 (6-12)	105	97	81	86	73	91
500-120663-10	1314V3-25-B02 (0-6)	100	94	75	80	26	89
500-120663-11	1314V3-25-B02 (6-12)	104	97	80	84	17 X	90
500-120663-12	1314V3-25-B05 (0-6)	103	108	85	82	54	88
500-120663-13	1314V3-25-B05 (6-12)	107	109	89	84	69	96
LCS 500-363273/2-A	Lab Control Sample	107	97	84	87	90	94

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
LCS 500-363274/2-A	Lab Control Sample	110	97	85	87	90	95
MB 500-363273/1-A	Method Blank	111	103	87	90	73	95
MB 500-363274/1-A	Method Blank	109	102	83	89	74	94

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363336/7

Matrix: Solid

Analysis Batch: 363336

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/02/16 14:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/02/16 14:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/02/16 14:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/02/16 14:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/02/16 14:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/02/16 14:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/02/16 14:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/02/16 14:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/02/16 14:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/02/16 14:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/02/16 14:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/02/16 14:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/02/16 14:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/02/16 14:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/02/16 14:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/02/16 14:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/02/16 14:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/02/16 14:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/02/16 14:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/02/16 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/02/16 14:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/02/16 14:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/02/16 14:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/02/16 14:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/02/16 14:10	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/02/16 14:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/02/16 14:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/02/16 14:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/02/16 14:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/02/16 14:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/02/16 14:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/02/16 14:10	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/02/16 14:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/02/16 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120		12/02/16 14:10	1
Dibromofluoromethane	92		75 - 120		12/02/16 14:10	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 134		12/02/16 14:10	1
Toluene-d8 (Surr)	101		75 - 123		12/02/16 14:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363336/5

Matrix: Solid

Analysis Batch: 363336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0463		mg/Kg		93	40 - 148
Benzene	0.0500	0.0478		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 120
Bromoform	0.0500	0.0485		mg/Kg		97	50 - 129
Bromomethane	0.0500	0.0418		mg/Kg		84	50 - 134
2-Butanone (MEK)	0.0500	0.0445		mg/Kg		89	47 - 138
Carbon disulfide	0.0500	0.0503		mg/Kg		101	67 - 133
Carbon tetrachloride	0.0500	0.0487		mg/Kg		97	65 - 123
Chlorobenzene	0.0500	0.0488		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0622		mg/Kg		124	40 - 150
Chloroform	0.0500	0.0495		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0463		mg/Kg		93	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	68 - 120
1,1-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	65 - 126
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 122
1,2-Dichloropropane	0.0500	0.0470		mg/Kg		94	70 - 126
Ethylbenzene	0.0500	0.0499		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0431		mg/Kg		86	51 - 139
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0465		mg/Kg		93	51 - 141
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	70 - 121
Styrene	0.0500	0.0499		mg/Kg		100	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0492		mg/Kg		98	70 - 125
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 122
Toluene	0.0500	0.0504		mg/Kg		101	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 121
1,1,1-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 120
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 124
Vinyl acetate	0.0500	0.0441		mg/Kg		88	40 - 150
Vinyl chloride	0.0500	0.0472		mg/Kg		94	64 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	90		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-363336/6
Matrix: Solid
Analysis Batch: 363336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0439		mg/Kg		88	40 - 148	5	30
Benzene	0.0500	0.0522		mg/Kg		104	70 - 120	9	30
Bromodichloromethane	0.0500	0.0531		mg/Kg		106	67 - 120	8	30
Bromoform	0.0500	0.0550		mg/Kg		110	50 - 129	12	30
Bromomethane	0.0500	0.0479		mg/Kg		96	50 - 134	13	30
2-Butanone (MEK)	0.0500	0.0449		mg/Kg		90	47 - 138	1	30
Carbon disulfide	0.0500	0.0542		mg/Kg		108	67 - 133	8	30
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	65 - 123	8	30
Chlorobenzene	0.0500	0.0530		mg/Kg		106	70 - 120	8	30
Chloroethane	0.0500	0.0553		mg/Kg		111	40 - 150	12	30
Chloroform	0.0500	0.0542		mg/Kg		108	70 - 120	9	30
Chloromethane	0.0500	0.0502		mg/Kg		100	63 - 135	8	30
cis-1,2-Dichloroethene	0.0500	0.0533		mg/Kg		107	70 - 120	9	30
cis-1,3-Dichloropropene	0.0500	0.0542		mg/Kg		108	70 - 120	8	30
Dibromochloromethane	0.0500	0.0550		mg/Kg		110	68 - 120	11	30
1,1-Dichloroethane	0.0500	0.0526		mg/Kg		105	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0528		mg/Kg		106	65 - 126	11	30
1,1-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 122	8	30
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 126	10	30
Ethylbenzene	0.0500	0.0533		mg/Kg		107	70 - 120	6	30
2-Hexanone	0.0500	0.0476		mg/Kg		95	51 - 139	10	30
Methylene Chloride	0.0500	0.0562		mg/Kg		112	70 - 121	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0489		mg/Kg		98	51 - 141	5	30
Methyl tert-butyl ether	0.0500	0.0546		mg/Kg		109	70 - 121	15	30
Styrene	0.0500	0.0540		mg/Kg		108	70 - 121	8	30
1,1,1,2-Tetrachloroethane	0.0500	0.0555		mg/Kg		111	70 - 125	12	30
Tetrachloroethene	0.0500	0.0549		mg/Kg		110	70 - 122	7	30
Toluene	0.0500	0.0530		mg/Kg		106	70 - 121	5	30
trans-1,2-Dichloroethene	0.0500	0.0540		mg/Kg		108	70 - 120	8	30
trans-1,3-Dichloropropene	0.0500	0.0523		mg/Kg		105	70 - 121	7	30
1,1,1-Trichloroethane	0.0500	0.0528		mg/Kg		106	70 - 120	7	30
1,1,2-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120	12	30
Trichloroethene	0.0500	0.0525		mg/Kg		105	70 - 124	6	30
Vinyl acetate	0.0500	0.0498		mg/Kg		100	40 - 150	12	30
Vinyl chloride	0.0500	0.0516		mg/Kg		103	64 - 125	9	30
Xylenes, Total	0.100	0.110		mg/Kg		110	70 - 123	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		70 - 120
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-363464/29

Matrix: Solid

Analysis Batch: 363464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/03/16 11:16	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/03/16 11:16	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/03/16 11:16	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/03/16 11:16	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/03/16 11:16	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/03/16 11:16	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/03/16 11:16	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/03/16 11:16	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/03/16 11:16	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/03/16 11:16	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/03/16 11:16	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/03/16 11:16	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/03/16 11:16	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/03/16 11:16	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/03/16 11:16	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/03/16 11:16	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/03/16 11:16	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/03/16 11:16	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/03/16 11:16	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/03/16 11:16	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/03/16 11:16	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/03/16 11:16	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/03/16 11:16	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/03/16 11:16	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/03/16 11:16	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/03/16 11:16	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/03/16 11:16	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/03/16 11:16	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/03/16 11:16	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/03/16 11:16	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/03/16 11:16	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/03/16 11:16	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/03/16 11:16	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/03/16 11:16	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/03/16 11:16	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/03/16 11:16	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/03/16 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120		12/03/16 11:16	1
Dibromofluoromethane	100		75 - 120		12/03/16 11:16	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 134		12/03/16 11:16	1
Toluene-d8 (Surr)	100		75 - 123		12/03/16 11:16	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363464/3

Matrix: Solid

Analysis Batch: 363464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0494		mg/Kg		99	40 - 148
Benzene	0.0500	0.0477		mg/Kg		95	70 - 120
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	67 - 120
Bromoform	0.0500	0.0491		mg/Kg		98	50 - 129
Bromomethane	0.0500	0.0496		mg/Kg		99	50 - 134
2-Butanone (MEK)	0.0500	0.0484		mg/Kg		97	47 - 138
Carbon disulfide	0.0500	0.0493		mg/Kg		99	67 - 133
Carbon tetrachloride	0.0500	0.0492		mg/Kg		98	65 - 123
Chlorobenzene	0.0500	0.0476		mg/Kg		95	70 - 120
Chloroethane	0.0500	0.0543		mg/Kg		109	40 - 150
Chloroform	0.0500	0.0494		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0505		mg/Kg		101	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0484		mg/Kg		97	70 - 120
Dibromochloromethane	0.0500	0.0481		mg/Kg		96	68 - 120
1,1-Dichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125
1,2-Dichloroethane	0.0500	0.0471		mg/Kg		94	65 - 126
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 122
1,2-Dichloropropane	0.0500	0.0470		mg/Kg		94	70 - 126
Ethylbenzene	0.0500	0.0493		mg/Kg		99	70 - 120
2-Hexanone	0.0500	0.0496		mg/Kg		99	51 - 139
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0521		mg/Kg		104	51 - 141
Methyl tert-butyl ether	0.0500	0.0491		mg/Kg		98	70 - 121
Styrene	0.0500	0.0491		mg/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0500		mg/Kg		100	70 - 125
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	70 - 122
Toluene	0.0500	0.0487		mg/Kg		97	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0479		mg/Kg		96	70 - 121
1,1,1-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0491		mg/Kg		98	70 - 124
Vinyl acetate	0.0500	0.0433		mg/Kg		87	40 - 150
Vinyl chloride	0.0500	0.0525		mg/Kg		105	64 - 125
Xylenes, Total	0.100	0.0995		mg/Kg		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 120
Dibromofluoromethane	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	93		69 - 134
Toluene-d8 (Surr)	101		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363273/1-A

Matrix: Solid

Analysis Batch: 363418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 363273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/02/16 07:29	12/02/16 20:27	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-363273/1-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/02/16 07:29	12/02/16 20:27	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/02/16 07:29	12/02/16 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111		40 - 130	12/02/16 07:29	12/02/16 20:27	1
Phenol-d5	103		36 - 123	12/02/16 07:29	12/02/16 20:27	1
Nitrobenzene-d5	87		33 - 124	12/02/16 07:29	12/02/16 20:27	1
2-Fluorobiphenyl	90		42 - 115	12/02/16 07:29	12/02/16 20:27	1
2,4,6-Tribromophenol	73		25 - 130	12/02/16 07:29	12/02/16 20:27	1
Terphenyl-d14	95		25 - 150	12/02/16 07:29	12/02/16 20:27	1

Lab Sample ID: LCS 500-363273/2-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.37		mg/Kg		102	55 - 118
Bis(2-chloroethyl)ether	1.33	1.18		mg/Kg		89	53 - 116
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	56 - 110
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	57 - 110
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		89	56 - 110
2-Methylphenol	1.33	1.20		mg/Kg		90	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.21		mg/Kg		91	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		86	56 - 119
Hexachloroethane	1.33	1.21		mg/Kg		90	54 - 111
2-Chlorophenol	1.33	1.25		mg/Kg		94	57 - 117
Nitrobenzene	1.33	1.22		mg/Kg		91	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.22		mg/Kg		92	59 - 116
1,2,4-Trichlorobenzene	1.33	1.23		mg/Kg		92	60 - 116
Isophorone	1.33	1.11		mg/Kg		83	54 - 120
2,4-Dimethylphenol	1.33	1.22		mg/Kg		92	50 - 120
Hexachlorobutadiene	1.33	1.19		mg/Kg		89	56 - 120
Naphthalene	1.33	1.18		mg/Kg		89	58 - 116
2,4-Dichlorophenol	1.33	1.26		mg/Kg		95	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363273/2-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	2.00		mg/Kg		150	10 - 150
2,4,6-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
2,4,5-Trichlorophenol	1.33	1.13		mg/Kg		85	42 - 119
Hexachlorocyclopentadiene	1.33	0.365	J	mg/Kg		27	10 - 116
2-Methylnaphthalene	1.33	1.19		mg/Kg		89	55 - 120
2-Nitroaniline	1.33	1.23		mg/Kg		92	52 - 121
2-Chloronaphthalene	1.33	1.25		mg/Kg		94	57 - 112
4-Chloro-3-methylphenol	1.33	1.21		mg/Kg		91	59 - 117
2,6-Dinitrotoluene	1.33	1.31		mg/Kg		98	57 - 118
2-Nitrophenol	1.33	1.36		mg/Kg		102	58 - 121
3-Nitroaniline	1.33	1.17		mg/Kg		88	20 - 144
Dimethyl phthalate	1.33	1.21		mg/Kg		91	60 - 112
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		13	10 - 110
Acenaphthylene	1.33	1.14		mg/Kg		85	57 - 116
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		94	59 - 119
Acenaphthene	1.33	1.10		mg/Kg		82	52 - 113
Dibenzofuran	1.33	1.18		mg/Kg		88	59 - 110
4-Nitrophenol	2.67	1.48		mg/Kg		56	32 - 123
Fluorene	1.33	1.18		mg/Kg		89	56 - 115
4-Nitroaniline	1.33	1.58		mg/Kg		119	55 - 146
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		93	61 - 124
Hexachlorobenzene	1.33	1.23		mg/Kg		92	62 - 126
Diethyl phthalate	1.33	1.18		mg/Kg		88	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.23		mg/Kg		92	61 - 111
Pentachlorophenol	2.67	0.866		mg/Kg		32	12 - 116
N-Nitrosodiphenylamine	1.33	1.27		mg/Kg		96	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.04		mg/Kg		39	10 - 110
Phenanthrene	1.33	1.18		mg/Kg		88	58 - 125
Anthracene	1.33	1.19		mg/Kg		89	57 - 118
Carbazole	1.33	1.42		mg/Kg		106	65 - 137
Di-n-butyl phthalate	1.33	1.23		mg/Kg		92	61 - 123
Fluoranthene	1.33	1.19		mg/Kg		89	61 - 124
Pyrene	1.33	1.21		mg/Kg		91	60 - 115
Butyl benzyl phthalate	1.33	1.26		mg/Kg		94	61 - 115
Benzo[a]anthracene	1.33	1.22		mg/Kg		91	63 - 115
Chrysene	1.33	1.24		mg/Kg		93	63 - 118
3,3'-Dichlorobenzidine	1.33	1.16		mg/Kg		87	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.30		mg/Kg		97	62 - 117
Di-n-octyl phthalate	1.33	1.31		mg/Kg		98	58 - 129
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	61 - 123
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		102	59 - 125
Benzo[a]pyrene	1.33	1.37		mg/Kg		103	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		123	50 - 149
Dibenz(a,h)anthracene	1.33	1.44		mg/Kg		108	61 - 134
Benzo[g,h,i]perylene	1.33	1.37		mg/Kg		102	55 - 134
3 & 4 Methylphenol	1.33	1.27		mg/Kg		95	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363273/2-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363273

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	107		40 - 130
Phenol-d5	97		36 - 123
Nitrobenzene-d5	84		33 - 124
2-Fluorobiphenyl	87		42 - 115
2,4,6-Tribromophenol	90		25 - 130
Terphenyl-d14	94		25 - 150

Lab Sample ID: MB 500-363274/1-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/02/16 07:34	12/02/16 19:58	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-363274/1-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/02/16 07:34	12/02/16 19:58	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/02/16 07:34	12/02/16 19:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	109		40 - 130	12/02/16 07:34	12/02/16 19:58	1
Phenol-d5	102		36 - 123	12/02/16 07:34	12/02/16 19:58	1
Nitrobenzene-d5	83		33 - 124	12/02/16 07:34	12/02/16 19:58	1
2-Fluorobiphenyl	89		42 - 115	12/02/16 07:34	12/02/16 19:58	1
2,4,6-Tribromophenol	74		25 - 130	12/02/16 07:34	12/02/16 19:58	1
Terphenyl-d14	94		25 - 150	12/02/16 07:34	12/02/16 19:58	1

Lab Sample ID: LCS 500-363274/2-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.36		mg/Kg		102	55 - 118
Bis(2-chloroethyl)ether	1.33	1.24		mg/Kg		93	53 - 116
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		86	56 - 110
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	57 - 110
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	56 - 110
2-Methylphenol	1.33	1.22		mg/Kg		92	53 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363274/2-A

Matrix: Solid

Analysis Batch: 363418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 363274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-oxybis[1-chloropropane]	1.33	1.20		mg/Kg		90	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.15		mg/Kg		86	56 - 119
Hexachloroethane	1.33	1.20		mg/Kg		90	54 - 111
2-Chlorophenol	1.33	1.26		mg/Kg		94	57 - 117
Nitrobenzene	1.33	1.20		mg/Kg		90	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		91	59 - 116
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	60 - 116
Isophorone	1.33	1.10		mg/Kg		83	54 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		93	50 - 120
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	58 - 116
2,4-Dichlorophenol	1.33	1.26		mg/Kg		95	61 - 116
4-Chloroaniline	1.33	1.77		mg/Kg		132	10 - 150
2,4,6-Trichlorophenol	1.33	1.16		mg/Kg		87	50 - 120
2,4,5-Trichlorophenol	1.33	1.15		mg/Kg		86	42 - 119
Hexachlorocyclopentadiene	1.33	0.348	J	mg/Kg		26	10 - 116
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	55 - 120
2-Nitroaniline	1.33	1.23		mg/Kg		92	52 - 121
2-Chloronaphthalene	1.33	1.24		mg/Kg		93	57 - 112
4-Chloro-3-methylphenol	1.33	1.21		mg/Kg		91	59 - 117
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		98	57 - 118
2-Nitrophenol	1.33	1.36		mg/Kg		102	58 - 121
3-Nitroaniline	1.33	0.998		mg/Kg		75	20 - 144
Dimethyl phthalate	1.33	1.19		mg/Kg		90	60 - 112
2,4-Dinitrophenol	2.67	1.26		mg/Kg		47	10 - 110
Acenaphthylene	1.33	1.15		mg/Kg		86	57 - 116
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		95	59 - 119
Acenaphthene	1.33	1.09		mg/Kg		82	52 - 113
Dibenzofuran	1.33	1.17		mg/Kg		88	59 - 110
4-Nitrophenol	2.67	1.49		mg/Kg		56	32 - 123
Fluorene	1.33	1.20		mg/Kg		90	56 - 115
4-Nitroaniline	1.33	1.54		mg/Kg		115	55 - 146
4-Bromophenyl phenyl ether	1.33	1.25		mg/Kg		94	61 - 124
Hexachlorobenzene	1.33	1.22		mg/Kg		92	62 - 126
Diethyl phthalate	1.33	1.19		mg/Kg		89	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	61 - 111
Pentachlorophenol	2.67	1.06		mg/Kg		40	12 - 116
N-Nitrosodiphenylamine	1.33	1.29		mg/Kg		97	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.89		mg/Kg		71	10 - 110
Phenanthrene	1.33	1.20		mg/Kg		90	58 - 125
Anthracene	1.33	1.22		mg/Kg		91	57 - 118
Carbazole	1.33	1.44		mg/Kg		108	65 - 137
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	61 - 123
Fluoranthene	1.33	1.19		mg/Kg		90	61 - 124
Pyrene	1.33	1.21		mg/Kg		91	60 - 115
Butyl benzyl phthalate	1.33	1.25		mg/Kg		93	61 - 115
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	63 - 115
Chrysene	1.33	1.23		mg/Kg		92	63 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363274/2-A
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
3,3'-Dichlorobenzidine	1.33	1.11		mg/Kg		83	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.29		mg/Kg		97	62 - 117
Di-n-octyl phthalate	1.33	1.31		mg/Kg		98	58 - 129
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	61 - 123
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		94	59 - 125
Benzo[a]pyrene	1.33	1.37		mg/Kg		103	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.64		mg/Kg		123	50 - 149
Dibenz(a,h)anthracene	1.33	1.44		mg/Kg		108	61 - 134
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	55 - 134
3 & 4 Methylphenol	1.33	1.30		mg/Kg		97	55 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	110		40 - 130
Phenol-d5	97		36 - 123
Nitrobenzene-d5	85		33 - 124
2-Fluorobiphenyl	87		42 - 115
2,4,6-Tribromophenol	90		25 - 130
Terphenyl-d14	95		25 - 150

Lab Sample ID: 500-120663-1 MS
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 363274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19	F2	1.62	0.962		mg/Kg	☼	59	55 - 118
Bis(2-chloroethyl)ether	<0.19	F1	1.62	1.56		mg/Kg	☼	96	53 - 116
1,3-Dichlorobenzene	<0.19		1.62	1.23		mg/Kg	☼	76	56 - 110
1,4-Dichlorobenzene	<0.19		1.62	1.26		mg/Kg	☼	78	57 - 110
1,2-Dichlorobenzene	<0.19		1.62	1.26		mg/Kg	☼	78	56 - 110
2-Methylphenol	<0.19		1.62	1.85		mg/Kg	☼	114	53 - 123
2,2'-oxybis[1-chloropropane]	<0.19		1.62	1.32		mg/Kg	☼	81	22 - 133
N-Nitrosodi-n-propylamine	<0.077		1.62	1.34		mg/Kg	☼	82	56 - 119
Hexachloroethane	<0.19		1.62	1.17		mg/Kg	☼	72	54 - 111
2-Chlorophenol	<0.19		1.62	1.51		mg/Kg	☼	93	57 - 117
Nitrobenzene	<0.038		1.62	1.36		mg/Kg	☼	84	56 - 121
Bis(2-chloroethoxy)methane	<0.19		1.62	1.40		mg/Kg	☼	86	59 - 116
1,2,4-Trichlorobenzene	<0.19		1.62	1.36		mg/Kg	☼	84	60 - 116
Isophorone	<0.19		1.62	1.28		mg/Kg	☼	79	54 - 120
2,4-Dimethylphenol	<0.38		1.62	1.48		mg/Kg	☼	91	50 - 120
Hexachlorobutadiene	<0.19		1.62	1.31		mg/Kg	☼	81	56 - 120
Naphthalene	<0.038		1.62	1.31		mg/Kg	☼	81	58 - 116
2,4-Dichlorophenol	<0.38		1.62	1.53		mg/Kg	☼	94	61 - 116
4-Chloroaniline	<0.77		1.62	2.41		mg/Kg	☼	148	10 - 150
2,4,6-Trichlorophenol	<0.38		1.62	1.44		mg/Kg	☼	89	50 - 120
2,4,5-Trichlorophenol	<0.38		1.62	1.56		mg/Kg	☼	96	42 - 119
Hexachlorocyclopentadiene	<0.77	F1	1.62	<0.82	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	<0.077		1.62	1.34		mg/Kg	☼	83	55 - 120
2-Nitroaniline	<0.19		1.62	1.51		mg/Kg	☼	93	52 - 121

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120663-1 MS

Matrix: Solid

Analysis Batch: 363418

Client Sample ID: 1314V3-25-B03 (0-8)

Prep Type: Total/NA

Prep Batch: 363274

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result			Result	Qualifier				
2-Chloronaphthalene	<0.19		1.62	1.46		mg/Kg	☼	90	57 - 112
4-Chloro-3-methylphenol	<0.38		1.62	1.47		mg/Kg	☼	90	59 - 117
2,6-Dinitrotoluene	<0.19		1.62	1.53		mg/Kg	☼	94	57 - 118
2-Nitrophenol	<0.38		1.62	1.43		mg/Kg	☼	88	58 - 121
3-Nitroaniline	<0.38		1.62	2.24		mg/Kg	☼	138	20 - 144
Dimethyl phthalate	<0.19		1.62	1.47		mg/Kg	☼	91	60 - 112
2,4-Dinitrophenol	<0.77	F1	3.25	<0.82	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038		1.62	1.37		mg/Kg	☼	84	57 - 116
2,4-Dinitrotoluene	<0.19		1.62	1.34		mg/Kg	☼	82	59 - 119
Acenaphthene	<0.038		1.62	1.31		mg/Kg	☼	81	52 - 113
Dibenzofuran	<0.19		1.62	1.43		mg/Kg	☼	88	59 - 110
4-Nitrophenol	<0.77		3.25	1.91		mg/Kg	☼	59	32 - 123
Fluorene	<0.038		1.62	1.48		mg/Kg	☼	91	56 - 115
4-Nitroaniline	<0.38		1.62	1.95		mg/Kg	☼	120	55 - 146
4-Bromophenyl phenyl ether	<0.19		1.62	1.52		mg/Kg	☼	93	61 - 124
Hexachlorobenzene	<0.077		1.62	1.47		mg/Kg	☼	91	62 - 126
Diethyl phthalate	<0.19		1.62	1.47		mg/Kg	☼	91	58 - 117
4-Chlorophenyl phenyl ether	<0.19		1.62	1.51		mg/Kg	☼	93	61 - 111
Pentachlorophenol	<0.77	F1	3.25	<0.82	F1	mg/Kg	☼	0	12 - 116
N-Nitrosodiphenylamine	<0.19		1.62	1.55		mg/Kg	☼	95	62 - 117
4,6-Dinitro-2-methylphenol	<0.77	F1	3.25	<0.82	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.024	J	1.62	1.50		mg/Kg	☼	91	58 - 125
Anthracene	<0.038		1.62	1.48		mg/Kg	☼	91	57 - 118
Carbazole	<0.19		1.62	1.75		mg/Kg	☼	108	65 - 137
Di-n-butyl phthalate	<0.19		1.62	1.49		mg/Kg	☼	92	61 - 123
Fluoranthene	0.025	J	1.62	1.50		mg/Kg	☼	91	61 - 124
Pyrene	0.021	J	1.62	1.55		mg/Kg	☼	94	60 - 115
Butyl benzyl phthalate	<0.19		1.62	1.53		mg/Kg	☼	94	61 - 115
Benzo[a]anthracene	0.013	J	1.62	1.49		mg/Kg	☼	91	63 - 115
Chrysene	0.012	J	1.62	1.50		mg/Kg	☼	92	63 - 118
3,3'-Dichlorobenzidine	<0.19		1.62	1.47		mg/Kg	☼	90	40 - 110
Bis(2-ethylhexyl) phthalate	<0.19		1.62	1.62		mg/Kg	☼	100	62 - 117
Di-n-octyl phthalate	<0.19		1.62	1.63		mg/Kg	☼	100	58 - 129
Benzo[b]fluoranthene	0.012	J	1.62	1.94		mg/Kg	☼	118	61 - 123
Benzo[k]fluoranthene	<0.038		1.62	1.89		mg/Kg	☼	116	59 - 125
Benzo[a]pyrene	0.011	J	1.62	1.71		mg/Kg	☼	104	64 - 122
Indeno[1,2,3-cd]pyrene	<0.038		1.62	1.14		mg/Kg	☼	70	50 - 149
Dibenz(a,h)anthracene	<0.038		1.62	1.07		mg/Kg	☼	66	61 - 134
Benzo[g,h,i]perylene	<0.038	F1	1.62	0.784	F1	mg/Kg	☼	48	55 - 134
3 & 4 Methylphenol	<0.19		1.62	1.56		mg/Kg	☼	96	55 - 124

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	104		40 - 130
Phenol-d5	49		36 - 123
Nitrobenzene-d5	77		33 - 124
2-Fluorobiphenyl	85		42 - 115
2,4,6-Tribromophenol	66		25 - 130
Terphenyl-d14	98		25 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Lab Sample ID: 500-120663-1 MSD
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 363274

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Phenol	<0.19	F2	1.59	1.48	F2	mg/Kg	☼	93	55 - 118	42	30
Bis(2-chloroethyl)ether	<0.19	F1	1.59	1.89	F1	mg/Kg	☼	119	53 - 116	19	30
1,3-Dichlorobenzene	<0.19		1.59	1.16		mg/Kg	☼	73	56 - 110	6	30
1,4-Dichlorobenzene	<0.19		1.59	1.20		mg/Kg	☼	75	57 - 110	6	30
1,2-Dichlorobenzene	<0.19		1.59	1.22		mg/Kg	☼	77	56 - 110	3	30
2-Methylphenol	<0.19		1.59	1.38		mg/Kg	☼	87	53 - 123	29	30
2,2'-oxybis[1-chloropropane]	<0.19		1.59	1.27		mg/Kg	☼	80	22 - 133	4	30
N-Nitrosodi-n-propylamine	<0.077		1.59	1.26		mg/Kg	☼	79	56 - 119	6	30
Hexachloroethane	<0.19		1.59	1.05		mg/Kg	☼	66	54 - 111	10	30
2-Chlorophenol	<0.19		1.59	1.39		mg/Kg	☼	87	57 - 117	8	30
Nitrobenzene	<0.038		1.59	1.25		mg/Kg	☼	79	56 - 121	8	30
Bis(2-chloroethoxy)methane	<0.19		1.59	1.29		mg/Kg	☼	81	59 - 116	8	30
1,2,4-Trichlorobenzene	<0.19		1.59	1.27		mg/Kg	☼	80	60 - 116	6	30
Isophorone	<0.19		1.59	1.17		mg/Kg	☼	74	54 - 120	9	30
2,4-Dimethylphenol	<0.38		1.59	1.34		mg/Kg	☼	85	50 - 120	10	30
Hexachlorobutadiene	<0.19		1.59	1.21		mg/Kg	☼	76	56 - 120	8	30
Naphthalene	<0.038		1.59	1.23		mg/Kg	☼	77	58 - 116	7	30
2,4-Dichlorophenol	<0.38		1.59	1.38		mg/Kg	☼	87	61 - 116	10	30
4-Chloroaniline	<0.77		1.59	1.92		mg/Kg	☼	121	10 - 150	23	30
2,4,6-Trichlorophenol	<0.38		1.59	1.25		mg/Kg	☼	79	50 - 120	14	30
2,4,5-Trichlorophenol	<0.38		1.59	1.40		mg/Kg	☼	88	42 - 119	11	30
Hexachlorocyclopentadiene	<0.77	F1	1.59	<0.80	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	<0.077		1.59	1.26		mg/Kg	☼	80	55 - 120	6	30
2-Nitroaniline	<0.19		1.59	1.37		mg/Kg	☼	86	52 - 121	10	30
2-Chloronaphthalene	<0.19		1.59	1.34		mg/Kg	☼	85	57 - 112	8	30
4-Chloro-3-methylphenol	<0.38		1.59	1.39		mg/Kg	☼	88	59 - 117	6	30
2,6-Dinitrotoluene	<0.19		1.59	1.45		mg/Kg	☼	91	57 - 118	6	30
2-Nitrophenol	<0.38		1.59	1.28		mg/Kg	☼	81	58 - 121	11	30
3-Nitroaniline	<0.38		1.59	2.15		mg/Kg	☼	135	20 - 144	4	30
Dimethyl phthalate	<0.19		1.59	1.33		mg/Kg	☼	84	60 - 112	10	30
2,4-Dinitrophenol	<0.77	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038		1.59	1.25		mg/Kg	☼	79	57 - 116	9	30
2,4-Dinitrotoluene	<0.19		1.59	1.26		mg/Kg	☼	79	59 - 119	6	30
Acenaphthene	<0.038		1.59	1.19		mg/Kg	☼	75	52 - 113	9	30
Dibenzofuran	<0.19		1.59	1.30		mg/Kg	☼	82	59 - 110	10	30
4-Nitrophenol	<0.77		3.17	1.43		mg/Kg	☼	45	32 - 123	28	30
Fluorene	<0.038		1.59	1.34		mg/Kg	☼	84	56 - 115	10	30
4-Nitroaniline	<0.38		1.59	1.92		mg/Kg	☼	121	55 - 146	2	30
4-Bromophenyl phenyl ether	<0.19		1.59	1.40		mg/Kg	☼	88	61 - 124	8	30
Hexachlorobenzene	<0.077		1.59	1.38		mg/Kg	☼	87	62 - 126	7	30
Diethyl phthalate	<0.19		1.59	1.37		mg/Kg	☼	87	58 - 117	7	30
4-Chlorophenyl phenyl ether	<0.19		1.59	1.37		mg/Kg	☼	86	61 - 111	10	30
Pentachlorophenol	<0.77	F1	3.17	<0.80	F1	mg/Kg	☼	0	12 - 116	NC	30
N-Nitrosodiphenylamine	<0.19		1.59	1.46		mg/Kg	☼	92	62 - 117	5	30
4,6-Dinitro-2-methylphenol	<0.77	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.024	J	1.59	1.40		mg/Kg	☼	87	58 - 125	7	30
Anthracene	<0.038		1.59	1.39		mg/Kg	☼	87	57 - 118	6	30
Carbazole	<0.19		1.59	1.66		mg/Kg	☼	105	65 - 137	5	30
Di-n-butyl phthalate	<0.19		1.59	1.40		mg/Kg	☼	88	61 - 123	6	30
Fluoranthene	0.025	J	1.59	1.41		mg/Kg	☼	87	61 - 124	6	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120663-1 MSD
Matrix: Solid
Analysis Batch: 363418

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 363274

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Pyrene	0.021	J	1.59	1.47		mg/Kg	☼	91	60 - 115	5	30	
Butyl benzyl phthalate	<0.19		1.59	1.43		mg/Kg	☼	90	61 - 115	7	30	
Benzo[a]anthracene	0.013	J	1.59	1.42		mg/Kg	☼	88	63 - 115	5	30	
Chrysene	0.012	J	1.59	1.42		mg/Kg	☼	89	63 - 118	5	30	
3,3'-Dichlorobenzidine	<0.19		1.59	1.42		mg/Kg	☼	89	40 - 110	3	30	
Bis(2-ethylhexyl) phthalate	<0.19		1.59	1.52		mg/Kg	☼	96	62 - 117	6	30	
Di-n-octyl phthalate	<0.19		1.59	1.51		mg/Kg	☼	95	58 - 129	8	30	
Benzo[b]fluoranthene	0.012	J	1.59	1.78		mg/Kg	☼	111	61 - 123	9	30	
Benzo[k]fluoranthene	<0.038		1.59	1.93		mg/Kg	☼	122	59 - 125	2	30	
Benzo[a]pyrene	0.011	J	1.59	1.63		mg/Kg	☼	102	64 - 122	5	30	
Indeno[1,2,3-cd]pyrene	<0.038		1.59	1.07		mg/Kg	☼	68	50 - 149	6	30	
Dibenz(a,h)anthracene	<0.038		1.59	1.01		mg/Kg	☼	64	61 - 134	5	30	
Benzo[g,h,i]perylene	<0.038	F1	1.59	0.739	F1	mg/Kg	☼	47	55 - 134	6	30	
3 & 4 Methylphenol	<0.19		1.59	1.49		mg/Kg	☼	94	55 - 124	5	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	97		40 - 130
Phenol-d5	94		36 - 123
Nitrobenzene-d5	74		33 - 124
2-Fluorobiphenyl	78		42 - 115
2,4,6-Tribromophenol	55		25 - 130
Terphenyl-d14	95		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-362833/1-A
Matrix: Solid
Analysis Batch: 363271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362833

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Arsenic	<1.0		1.0	0.46	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Barium	<1.0		1.0	0.18	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Beryllium	<0.40		0.40	0.087	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Boron	2.80	J	5.0	0.70	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Cadmium	<0.20		0.20	0.058	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Calcium	<20		20	6.4	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Chromium	2.91		1.0	0.17	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Cobalt	<0.50		0.50	0.11	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Copper	<1.0		1.0	0.22	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Iron	16.8	J	20	7.7	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Lead	<0.50		0.50	0.25	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Magnesium	4.28	J	10	4.1	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Manganese	0.220	J	1.0	0.20	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Nickel	<1.0		1.0	0.27	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Potassium	9.83	J	50	8.2	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Selenium	<1.0		1.0	0.50	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Silver	<0.50		0.50	0.12	mg/Kg		11/29/16 15:07	12/01/16 18:52	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-362833/1-A
Matrix: Solid
Analysis Batch: 363271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	20.6	J	100	13	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Thallium	<1.0		1.0	0.49	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Vanadium	<0.50		0.50	0.15	mg/Kg		11/29/16 15:07	12/01/16 18:52	1
Zinc	<2.0		2.0	0.63	mg/Kg		11/29/16 15:07	12/01/16 18:52	1

Lab Sample ID: MB 500-362833/1-A
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.502	J	1.0	0.17	mg/Kg		11/29/16 15:07	12/03/16 04:56	1

Lab Sample ID: LCS 500-362833/2-A
Matrix: Solid
Analysis Batch: 363271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.9		mg/Kg		90	80 - 120
Arsenic	10.0	8.73		mg/Kg		87	80 - 120
Barium	200	185		mg/Kg		92	80 - 120
Beryllium	5.00	4.78		mg/Kg		96	80 - 120
Boron	100	82.2		mg/Kg		82	80 - 120
Cadmium	5.00	4.52		mg/Kg		90	80 - 120
Calcium	1000	931		mg/Kg		93	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	47.0		mg/Kg		94	80 - 120
Copper	25.0	23.0		mg/Kg		92	80 - 120
Iron	100	91.9		mg/Kg		92	80 - 120
Lead	10.0	8.99		mg/Kg		90	80 - 120
Magnesium	1000	905		mg/Kg		90	80 - 120
Manganese	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Potassium	1000	960		mg/Kg		96	80 - 120
Selenium	10.0	8.15		mg/Kg		81	80 - 120
Silver	5.00	4.40		mg/Kg		88	80 - 120
Sodium	1000	956		mg/Kg		96	80 - 120
Thallium	10.0	9.09		mg/Kg		91	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-362833/2-A
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chromium	20.0	19.5		mg/Kg		98	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120663-1 MS

Matrix: Solid

Analysis Batch: 363271

Client Sample ID: 1314V3-25-B03 (0-8)

Prep Type: Total/NA

Prep Batch: 362833

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<1.2	F1	29.4	7.12	F1	mg/Kg	☼	24	75 - 125
Arsenic	2.3		5.87	6.73		mg/Kg	☼	75	75 - 125
Barium	120	F1	117	211		mg/Kg	☼	78	75 - 125
Beryllium	0.61		2.94	3.09		mg/Kg	☼	84	75 - 125
Boron	5.3	F1 B	58.7	47.1	F1	mg/Kg	☼	71	75 - 125
Cadmium	0.38		2.94	2.57		mg/Kg	☼	75	75 - 125
Calcium	6300		587	7140	4	mg/Kg	☼	136	75 - 125
Cobalt	5.1		29.4	33.9		mg/Kg	☼	98	75 - 125
Copper	13	F1	14.7	23.8	F1	mg/Kg	☼	72	75 - 125
Iron	12000	B	58.7	12200	4	mg/Kg	☼	835	75 - 125
Lead	490		5.87	50.9	4	mg/Kg	☼	-7449	75 - 125
Magnesium	2500	B	587	3490	4	mg/Kg	☼	174	75 - 125
Manganese	170	B	29.4	188	4	mg/Kg	☼	73	75 - 125
Nickel	13		29.4	41.7		mg/Kg	☼	98	75 - 125
Potassium	710	B F1	587	1620	F1	mg/Kg	☼	154	75 - 125
Selenium	0.35	J F1	5.87	4.42	F1	mg/Kg	☼	69	75 - 125
Silver	<0.29	F1	2.94	2.09	F1	mg/Kg	☼	71	75 - 125
Sodium	54	J F2 B	587	667		mg/Kg	☼	104	75 - 125
Thallium	<0.58		5.87	4.91		mg/Kg	☼	84	75 - 125
Vanadium	13		29.4	40.2		mg/Kg	☼	92	75 - 125
Zinc	110	F1	29.4	132	F1	mg/Kg	☼	71	75 - 125

Lab Sample ID: 500-120663-1 MS

Matrix: Solid

Analysis Batch: 363473

Client Sample ID: 1314V3-25-B03 (0-8)

Prep Type: Total/NA

Prep Batch: 362833

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Chromium	9.6	B	11.7	22.5		mg/Kg	☼	110	75 - 125

Lab Sample ID: 500-120663-1 MSD

Matrix: Solid

Analysis Batch: 363271

Client Sample ID: 1314V3-25-B03 (0-8)

Prep Type: Total/NA

Prep Batch: 362833

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Antimony	<1.2	F1	28.2	6.13	F1	mg/Kg	☼	22	75 - 125	15	20
Arsenic	2.3		5.65	7.44		mg/Kg	☼	91	75 - 125	10	20
Barium	120	F1	113	190	F1	mg/Kg	☼	63	75 - 125	10	20
Beryllium	0.61		2.82	3.00		mg/Kg	☼	85	75 - 125	3	20
Boron	5.3	F1 B	56.5	41.2	F1	mg/Kg	☼	64	75 - 125	13	20
Cadmium	0.38		2.82	2.59		mg/Kg	☼	78	75 - 125	1	20
Calcium	6300		565	7150	4	mg/Kg	☼	142	75 - 125	0	20
Cobalt	5.1		28.2	33.7		mg/Kg	☼	101	75 - 125	1	20
Copper	13	F1	14.1	24.8		mg/Kg	☼	82	75 - 125	4	20
Iron	12000	B	56.5	14700	4	mg/Kg	☼	5187	75 - 125	18	20
Lead	490		5.65	44.5	4	mg/Kg	☼	-7856	75 - 125	13	20
Magnesium	2500	B	565	3120	4	mg/Kg	☼	115	75 - 125	11	20
Manganese	170	B	28.2	190	4	mg/Kg	☼	83	75 - 125	1	20
Nickel	13		28.2	42.4		mg/Kg	☼	105	75 - 125	2	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120663-1 MSD
Matrix: Solid
Analysis Batch: 363271

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Potassium	710	B F1	565	1420		mg/Kg	☼	125	75 - 125	13	20
Selenium	0.35	J F1	5.65	4.24	F1	mg/Kg	☼	69	75 - 125	4	20
Silver	<0.29	F1	2.82	2.00	F1	mg/Kg	☼	71	75 - 125	5	20
Sodium	54	J F2 B	565	521	F2	mg/Kg	☼	83	75 - 125	25	20
Thallium	<0.58		5.65	4.75		mg/Kg	☼	84	75 - 125	3	20
Vanadium	13		28.2	40.2		mg/Kg	☼	96	75 - 125	0	20
Zinc	110	F1	28.2	159	F1	mg/Kg	☼	166	75 - 125	18	20

Lab Sample ID: 500-120663-1 MSD
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Chromium	9.6	B	11.3	22.7		mg/Kg	☼	116	75 - 125	1	20

Lab Sample ID: 500-120663-1 DU
Matrix: Solid
Analysis Batch: 363271

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<1.2	F1	<1.2		mg/Kg	☼	NC	20
Arsenic	2.3		1.92		mg/Kg	☼	19	20
Barium	120	F1	91.2	F3	mg/Kg	☼	26	20
Beryllium	0.61		0.587		mg/Kg	☼	4	20
Boron	5.3	F1 B	5.56		mg/Kg	☼	5	20
Cadmium	0.38		0.321		mg/Kg	☼	17	20
Calcium	6300		6050		mg/Kg	☼	5	20
Cobalt	5.1		5.19		mg/Kg	☼	0.8	20
Copper	13	F1	11.5		mg/Kg	☼	14	20
Iron	12000	B	10900		mg/Kg	☼	8	20
Lead	490		51.7	F3	mg/Kg	☼	162	20
Magnesium	2500	B	2700		mg/Kg	☼	9	20
Manganese	170	B	160		mg/Kg	☼	4	20
Nickel	13		13.3		mg/Kg	☼	3	20
Potassium	710	B F1	730		mg/Kg	☼	3	20
Selenium	0.35	J F1	0.453	J F5	mg/Kg	☼	24	20
Silver	<0.29	F1	<0.29		mg/Kg	☼	NC	20
Sodium	54	J F2 B	57.4	J	mg/Kg	☼	7	20
Thallium	<0.58		<0.59		mg/Kg	☼	NC	20
Vanadium	13		11.9		mg/Kg	☼	10	20
Zinc	110	F1	112		mg/Kg	☼	0.3	20

Lab Sample ID: 500-120663-1 DU
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362833

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Chromium	9.6	B	9.36		mg/Kg	☼	3	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-363379/2-A
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.487	J	mg/L		97	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Boron	1.00	0.891		mg/L		89	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Chromium	0.200	0.189		mg/L		94	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0906		mg/L		91	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.474		mg/L		95	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Silver	0.0500	0.0468		mg/L		94	80 - 120
Zinc	0.500	0.461	J	mg/L		92	80 - 120

Lab Sample ID: LCS 500-363388/2-A
Matrix: Solid
Analysis Batch: 363732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.100	0.0981		mg/L		98	80 - 120
Manganese	0.500	0.517		mg/L		103	80 - 120

Lab Sample ID: LB 500-363172/1-C
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363379

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 20:58	1
Boron	0.0659	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 20:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 20:58	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 20:58	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 20:58	1

Lab Sample ID: LB 500-363174/1-B
Matrix: Solid
Analysis Batch: 363732

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363388

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:10	12/05/16 20:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 20:11	1

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-363174/1-B
Matrix: Solid
Analysis Batch: 363732

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363388

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 20:11	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-363379/2-A
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363379
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.440		mg/L		88	80 - 120
Thallium	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: LCS 500-363388/2-A
Matrix: Solid
Analysis Batch: 363753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363388
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.436		mg/L		87	80 - 120

Lab Sample ID: LB 500-363172/1-C
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363379

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:18	1

Lab Sample ID: LB 500-363174/1-B
Matrix: Solid
Analysis Batch: 363753

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363388

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:10	12/05/16 17:08	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-363342/12-A
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:43	1

Lab Sample ID: LCS 500-363342/13-A
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363342
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00180		mg/L		90	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-363172/1-B
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363342

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:49	1

Lab Sample ID: 500-120663-1 MS
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: TCLP
Prep Batch: 363342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000631		mg/L		63	50 - 150

Lab Sample ID: 500-120663-1 DU
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: TCLP
Prep Batch: 363342

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-362796/12-A
Matrix: Solid
Analysis Batch: 362945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		11/29/16 14:30	11/30/16 08:33	1

Lab Sample ID: LCS 500-362796/13-A
Matrix: Solid
Analysis Batch: 362945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

Lab Sample ID: 500-120663-1 MS
Matrix: Solid
Analysis Batch: 362945

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.060		0.0961	0.156		mg/Kg	☼	99	75 - 125

Lab Sample ID: 500-120663-1 MSD
Matrix: Solid
Analysis Batch: 362945

Client Sample ID: 1314V3-25-B03 (0-8)
Prep Type: Total/NA
Prep Batch: 362796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.060		0.0929	0.165		mg/Kg	☼	113	75 - 125	6	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-120663-1 DU
 Matrix: Solid
 Analysis Batch: 362945

Client Sample ID: 1314V3-25-B03 (0-8)
 Prep Type: Total/NA
 Prep Batch: 362796

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.060		0.0644		mg/Kg	☼	7	20

Method: 9045D - pH

Lab Sample ID: 500-120663-3 DU
 Matrix: Solid
 Analysis Batch: 363006

Client Sample ID: 1314V3-25-B04 (6-12)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1		8.1		SU		0.4	

Lab Sample ID: 500-120663-13 DU
 Matrix: Solid
 Analysis Batch: 363006

Client Sample ID: 1314V3-25-B05 (6-12)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0		7.0		SU		0.6	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 20:25	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:14	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:25	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 11:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:26		
					(End)	11/30/16 13:28		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B03 (0-8)

Lab Sample ID: 500-120663-1

Date Collected: 11/28/16 11:55

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 14:35	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 20:56	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 05:09	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:07	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:52	MJD	TAL CHI

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:19	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:29	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 11:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
						(Start) 11/30/16 13:28		
						(End) 11/30/16 13:30		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B04 (0-6)

Lab Sample ID: 500-120663-2

Date Collected: 11/28/16 12:30

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 14:59	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 21:25	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 05:43	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:27	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 08:47	MJD	TAL CHI

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 20:32	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:23	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:32	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 11:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
						(Start) 11/30/16 13:30		
						(End) 11/30/16 13:33		

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B04 (6-12)

Lab Sample ID: 500-120663-3

Date Collected: 11/28/16 12:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 15:24	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 21:55	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:06	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:31	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 08:49	MJD	TAL CHI

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 20:39	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:28	PJ1	TAL CHI
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6020A		1	363753	12/05/16 17:15	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:39	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 11:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006	(Start) 11/30/16 13:35 (End) 11/30/16 13:37	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (0-6)

Lab Sample ID: 500-120663-4

Date Collected: 11/28/16 13:15

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 15:49	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 22:24	GES	TAL CHI
Total/NA	Prep	3541	DL		363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D	DL	5	363689	12/05/16 23:28	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		5	363271	12/01/16 19:35	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 08:51	MJD	TAL CHI

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 20:45	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:33	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:42	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 11:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:37		
					(End)	11/30/16 13:40		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 16:13	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 22:53	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:13	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B06 (6-12)

Lab Sample ID: 500-120663-5

Date Collected: 11/28/16 13:20

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:39	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 08:54	MJD	TAL CHI

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:08	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:38	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:46	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:40		
					(End)	11/30/16 13:42		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B07 (0-6)

Lab Sample ID: 500-120663-6

Date Collected: 11/28/16 14:00

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 16:38	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 23:22	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:20	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:43	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:00	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:15	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:43	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 11:49	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:42		
					(End)	11/30/16 13:44		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B07 (6-12)

Lab Sample ID: 500-120663-7

Date Collected: 11/28/16 14:05

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 17:03	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/02/16 23:51	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:26	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 19:54	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:03	MJD	TAL CHI

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:21	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:47	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:00	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006	(Start) 11/30/16 13:44 (End) 11/30/16 13:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B01 (0-6)

Lab Sample ID: 500-120663-8

Date Collected: 11/28/16 14:45

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 17:28	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/03/16 03:44	GES	TAL CHI
Total/NA	Prep	3541	DL		363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D	DL	5	363689	12/05/16 23:53	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		5	363271	12/01/16 19:58	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:05	MJD	TAL CHI

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:28	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 21:52	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:03	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	363006	11/30/16 13:47 (Start) 11/30/16 13:49 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B01 (6-12)

Lab Sample ID: 500-120663-9

Date Collected: 11/28/16 14:50

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 17:52	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/03/16 03:15	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 20:01	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:08	MJD	TAL CHI

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:35	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:05	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:06	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006	11/30/16 13:49 (Start) 11/30/16 13:51 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (0-6)

Lab Sample ID: 500-120663-10

Date Collected: 11/28/16 15:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363464	12/03/16 12:05	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/03/16 00:20	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:33	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 20:05	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:10	MJD	TAL CHI

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:42	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:10	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:10	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:51		
					(End)	11/30/16 13:54		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 18:41	BDW	TAL CHI
Total/NA	Prep	3541			363274	12/02/16 07:34	STW	TAL CHI
Total/NA	Analysis	8270D		1	363418	12/03/16 00:49	GES	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:40	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B02 (6-12)

Lab Sample ID: 500-120663-11

Date Collected: 11/28/16 15:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 20:09	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:12	MJD	TAL CHI

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:48	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:15	PJ1	TAL CHI
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6020A		1	363753	12/05/16 17:18	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:13	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:54		
					(End)	11/30/16 13:56		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B05 (0-6)

Lab Sample ID: 500-120663-12

Date Collected: 11/28/16 16:35

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 19:06	BDW	TAL CHI
Total/NA	Prep	3541			363273	12/02/16 07:29	STW	TAL CHI
Total/NA	Analysis	8270D		1	363423	12/02/16 23:34	AJD	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		5	363271	12/01/16 20:13	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:15	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:19	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:17	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:14	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363006		SMO	TAL CHI
					(Start)	11/30/16 13:56		
					(End)	11/30/16 13:58		
Total/NA	Analysis	Moisture		1	362966	11/30/16 12:31	LWN	TAL CHI

Client Sample ID: 1314V3-25-B05 (6-12)

Lab Sample ID: 500-120663-13

Date Collected: 11/28/16 16:40

Matrix: Solid

Date Received: 11/29/16 09:25

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363054	11/29/16 12:20	PJH	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 19:31	BDW	TAL CHI
Total/NA	Prep	3541			363273	12/02/16 07:29	STW	TAL CHI
Total/NA	Analysis	8270D		1	363423	12/02/16 23:06	AJD	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/03/16 06:47	KML	TAL CHI
Total/NA	Prep	3050B			362833	11/29/16 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	363271	12/01/16 20:17	PJ1	TAL CHI
Total/NA	Prep	7471B			362796	11/29/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	362945	11/30/16 09:17	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120663-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-120663 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120663

Chain of Custody Number: ES46-01

Page _____ of _____

Temperature °C of Cooler: 3.5

Client		Client Project #		Preservative							Preservative Key									
EE		1009008.0046-01									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other									
Project Name		Lab Project #		Parameter							Comments									
I74		50012744																		
Project Location/State		Lab PM																		
Rock Island County		D-Wright																		
Sampler																				
S. Cooper																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VUC	SVUC	TOTH TAK	Metals	CWP/SPG	TAK METALS	P#/Y. S. I. J							
			Date	Time																
1		1314V3-25-B03(0-8)	11-28-16	1155	2 S		X	X	X	X	X									64C08
2		1314V3-25-B04(0-6)	11-28-16	1230	2 S		X	X	X	X	X									
3		1314V3-25-B04(6-12)	11-28-16	1235	2 S		X	X	X	X	X									
4		1314V3-25-B06(0-6)	11-28-16	1315	2 S		X	X	X	X	X									
5		1314V3-25-B06(6-12)	11-28-16	1320	2 S		X	X	X	X	X									
6		1314V3-25-B07(0-6)	11-28-16	1400	2 S		X	X	X	X	X									
7		1314V3-25-B07(6-12)	11-28-16	1405	2 S		X	X	X	X	X									
8		1314V3-25-B01(0-6)	11-28-16	1445	2 S		X	X	X	X	X									
9		1314V3-25-B01(6-12)	11-28-16	1450	2 S		X	X	X	X	X									
10		1314V3-25-B02(0-6)	11-28-16	1535	2 S		X	X	X	X	X									

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company EE	Date 11-28-16	Time 1730	Received By <u>[Signature]</u>	Company TA-CWT	Date 11/29/16	Time 0905
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: FedEx
Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional) _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120663

Chain of Custody Number: E846-02

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
EE		1009008-0046-01									
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Preservative Key	
F 74		50012744		Date Time		Matrix				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab PM									
Rock Island County, IL		D. Wright									
Sampler											
S. Cooper											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
11		1314V3-25-B02 (612)	11/28/16	1640	25		UCC	SUC	Tot. TAC	Turbidity TAC	PH/0.50/1.1
12		1314V3-25-B05 (06)	11/28/16	1635	25						
13		1314V3-25-B05 (612)	11/28/16	1640	25						

Turnaround Time Required (Business Days): 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days 15 Days ___ Other ___
 Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>11/28/16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>DA-EMT</u>	Date: <u>11/29/16</u>	Time: <u>0925</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>Fed X</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-120663-1

Login Number: 120663

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-120748-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout

Jodie Bracken

Authorized for release by:
12/13/2016 4:21:12 PM
Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for
Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Job ID: 500-120748-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-120748-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 3.9° C.

Receipt Exceptions

PCBs were added to lab samples 3-6 per communication with E&E 12/5.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample was outside the upper control limit: 1314V3-74-B01 (0-2) (500-120748-1). This sample did not contain any target analytes; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 363857 had 1 analyte outside control limits: Carbazole. These results have been reported and qualified. (LCS 500-363857/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: 1314V3-21-B02 (0-6) (500-120748-3), 1314V3-21-B02 (0-6)D (500-120748-4) and 1314V3-21-B01 (0-5) (500-120748-5). The reagent lot number used was: 153166.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The instrument blank for analytical batch 500-363473 at line 100 contained Iron greater than the reporting limit (RL); associated samples were not reanalyzed because they contained Iron greater than 10 times the amount found in the instrument blank. The data have been qualified and reported.

Method(s) 6010B: The following samples was diluted due to the nature of the sample matrix: 1314V3-21-B02 (0-6) (500-120748-3), 1314V3-21-B02 (0-6)D (500-120748-4) and 1314V3-21-B01 (0-5) (500-120748-5). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following samples was diluted due to the nature of the sample matrix: 1314V3-21-B02 (0-6) (500-120748-3), 1314V3-21-B02 (0-6)D (500-120748-4) and 1314V3-21-B01 (0-5) (500-120748-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.023	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.048		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.046		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.031	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.73	J F1	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.7		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	43	F1	0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45	F1	0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	5.0	F1	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	F1	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	48000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B F1	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6	F1	0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B ^	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13	F1 B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	F1	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J F1	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.98	F1	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	34	F1	1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.078	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.033	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.053		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.050		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2) (Continued)

Lab Sample ID: 500-120748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]pyrene	0.041		0.038	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.038	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.69	J	1.2	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	5.9		0.58	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	97		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1	☼	☼	6010B	Total/NA
Boron	6.9		2.9	0.41	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.50		0.12	0.034	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	23000	B	12	3.7	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	13	B	0.58	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	6.0		0.29	0.065	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	16		0.58	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	17000	B ^	12	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	81		0.29	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	10000		5.8	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	440		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	15	B	0.58	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	930		29	4.7	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Silver	0.10	J	0.29	0.068	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	970		58	7.6	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	1.4		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	27		0.29	0.085	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	89		1.2	0.37	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	1.1		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.061	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0042	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.30		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.80		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.079		0.019	0.010	mg/Kg	1	☼	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.050		0.021	0.0090	mg/Kg	1	☼	☼	8260B	Total/NA
2-Butanone (MEK)	0.0076		0.0051	0.0023	mg/Kg	1	☼	☼	8260B	Total/NA
Naphthalene	0.11		0.043	0.0066	mg/Kg	1	☼	☼	8270D	Total/NA
2-Methylnaphthalene	0.19		0.086	0.0079	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthylene	0.13		0.043	0.0057	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthene	0.012	J	0.043	0.0077	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenzofuran	0.078	J	0.22	0.050	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.012	J	0.043	0.0060	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.37		0.043	0.0060	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.10		0.043	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6) (Continued)

Lab Sample ID: 500-120748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.46		0.043	0.0079	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.43		0.043	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.28		0.043	0.0058	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.043	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.61		0.043	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.043	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.36		0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.043	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.046		0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.089		0.043	0.014	mg/Kg	1	☼	8270D	Total/NA
Antimony	4.2	J	6.1	1.3	mg/Kg	5	☼	6010B	Total/NA
Arsenic	7.9		3.1	1.4	mg/Kg	5	☼	6010B	Total/NA
Barium	210		3.1	0.56	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.4		1.2	0.26	mg/Kg	5	☼	6010B	Total/NA
Boron	27		15	2.1	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.1		0.61	0.18	mg/Kg	5	☼	6010B	Total/NA
Calcium	10000	B	61	20	mg/Kg	5	☼	6010B	Total/NA
Chromium	15	B	3.1	0.53	mg/Kg	5	☼	6010B	Total/NA
Cobalt	8.1		1.5	0.35	mg/Kg	5	☼	6010B	Total/NA
Copper	52		3.1	0.66	mg/Kg	5	☼	6010B	Total/NA
Iron	40000	B ^	61	24	mg/Kg	5	☼	6010B	Total/NA
Lead	140		1.5	0.76	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1800		31	12	mg/Kg	5	☼	6010B	Total/NA
Manganese	440		3.1	0.61	mg/Kg	5	☼	6010B	Total/NA
Nickel	24	B	3.1	0.83	mg/Kg	5	☼	6010B	Total/NA
Potassium	1000		150	25	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.0	J	3.1	1.5	mg/Kg	5	☼	6010B	Total/NA
Sodium	900		310	40	mg/Kg	5	☼	6010B	Total/NA
Thallium	2.8	J	3.1	1.5	mg/Kg	5	☼	6010B	Total/NA
Vanadium	27		1.5	0.45	mg/Kg	5	☼	6010B	Total/NA
Zinc	240		6.1	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.35	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.079		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.071		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.0098		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.0063		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.056		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.042		0.020	0.0088	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D (Continued)

Lab Sample ID: 500-120748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0088		0.0050	0.0022	mg/Kg	1	☼	☼	8260B	Total/NA
Naphthalene	0.071		0.039	0.0061	mg/Kg	1	☼	☼	8270D	Total/NA
2-Methylnaphthalene	0.13		0.080	0.0073	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthylene	0.13		0.039	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthene	0.026	J	0.039	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenzofuran	0.054	J	0.20	0.046	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.025	J	0.039	0.0055	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.49		0.039	0.0055	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.15		0.039	0.0066	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.77		0.039	0.0073	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.75		0.039	0.0078	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.43		0.039	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.45		0.039	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.80		0.039	0.0085	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.039	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.50		0.039	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.039	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.057		0.039	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.039	0.013	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	2.9	J	5.3	1.1	mg/Kg	5	☼	☼	6010B	Total/NA
Arsenic	6.6		2.6	1.2	mg/Kg	5	☼	☼	6010B	Total/NA
Barium	190		2.6	0.48	mg/Kg	5	☼	☼	6010B	Total/NA
Beryllium	1.8		1.1	0.23	mg/Kg	5	☼	☼	6010B	Total/NA
Boron	41		13	1.8	mg/Kg	5	☼	☼	6010B	Total/NA
Cadmium	0.98		0.53	0.15	mg/Kg	5	☼	☼	6010B	Total/NA
Calcium	9600	B	53	17	mg/Kg	5	☼	☼	6010B	Total/NA
Chromium	14	B	2.6	0.45	mg/Kg	5	☼	☼	6010B	Total/NA
Cobalt	7.8		1.3	0.30	mg/Kg	5	☼	☼	6010B	Total/NA
Copper	41		2.6	0.57	mg/Kg	5	☼	☼	6010B	Total/NA
Iron	39000	B ^	53	20	mg/Kg	5	☼	☼	6010B	Total/NA
Lead	150		1.3	0.66	mg/Kg	5	☼	☼	6010B	Total/NA
Magnesium	1500		26	11	mg/Kg	5	☼	☼	6010B	Total/NA
Manganese	410		2.6	0.52	mg/Kg	5	☼	☼	6010B	Total/NA
Nickel	23	B	2.6	0.72	mg/Kg	5	☼	☼	6010B	Total/NA
Potassium	980		130	22	mg/Kg	5	☼	☼	6010B	Total/NA
Selenium	1.9	J	2.6	1.3	mg/Kg	5	☼	☼	6010B	Total/NA
Sodium	790		260	35	mg/Kg	5	☼	☼	6010B	Total/NA
Thallium	2.5	J	2.6	1.3	mg/Kg	5	☼	☼	6010B	Total/NA
Vanadium	25		1.3	0.39	mg/Kg	5	☼	☼	6010B	Total/NA
Zinc	250		5.3	1.7	mg/Kg	5	☼	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.24	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.33	J	0.40	0.20	mg/L	1			6010B	TCLP
Lead	0.0099		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.43	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.097		0.0075	0.0075	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D (Continued)

Lab Sample ID: 500-120748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.075		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.018	0.0079	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.020	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.056	J	0.086	0.0078	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.032	J	0.042	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.042	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.071		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.052		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Antimony	2.2	J	6.2	1.3	mg/Kg	5	☼	6010B	Total/NA
Arsenic	9.0		3.1	1.4	mg/Kg	5	☼	6010B	Total/NA
Barium	140		3.1	0.56	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.5		1.2	0.27	mg/Kg	5	☼	6010B	Total/NA
Boron	22		15	2.2	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.4		0.62	0.18	mg/Kg	5	☼	6010B	Total/NA
Calcium	6400	B	62	20	mg/Kg	5	☼	6010B	Total/NA
Chromium	14	B	3.1	0.53	mg/Kg	5	☼	6010B	Total/NA
Cobalt	8.4		1.5	0.35	mg/Kg	5	☼	6010B	Total/NA
Copper	70		3.1	0.67	mg/Kg	5	☼	6010B	Total/NA
Iron	48000	B ^	62	24	mg/Kg	5	☼	6010B	Total/NA
Lead	82		1.5	0.77	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1100		31	13	mg/Kg	5	☼	6010B	Total/NA
Manganese	500		3.1	0.61	mg/Kg	5	☼	6010B	Total/NA
Nickel	24	B	3.1	0.83	mg/Kg	5	☼	6010B	Total/NA
Potassium	640		150	25	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.3	J	3.1	1.5	mg/Kg	5	☼	6010B	Total/NA
Sodium	470		310	41	mg/Kg	5	☼	6010B	Total/NA
Thallium	3.0	J	3.1	1.5	mg/Kg	5	☼	6010B	Total/NA
Vanadium	26		1.5	0.45	mg/Kg	5	☼	6010B	Total/NA
Zinc	330		6.2	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.31	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.29	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5) (Continued)

Lab Sample ID: 500-120748-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.038		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.070	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
PCB-1260	0.012	J	0.019	0.0094	mg/Kg	1	☼	8082A	Total/NA
Antimony	0.32	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.9		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.060	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	8.7		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B ^	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	5.6		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	590		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	22		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.066	J B	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.015	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-120748-1	1314V3-74-B01 (0-2)	Solid	11/29/16 09:55	11/30/16 10:20
500-120748-2	1314V3-75-B01 (0-2)	Solid	11/29/16 10:05	11/30/16 10:20
500-120748-3	1314V3-21-B02 (0-6)	Solid	11/29/16 11:45	11/30/16 10:20
500-120748-4	1314V3-21-B02 (0-6)D	Solid	11/29/16 11:45	11/30/16 10:20
500-120748-5	1314V3-21-B01 (0-5)	Solid	11/29/16 12:20	11/30/16 10:20
500-120748-6	1314V3-21-B01 (5-10)	Solid	11/29/16 12:25	11/30/16 10:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 89.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128	X	70 - 120	11/30/16 13:20	12/02/16 19:55	1
Dibromofluoromethane	98		75 - 120	11/30/16 13:20	12/02/16 19:55	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	11/30/16 13:20	12/02/16 19:55	1
Toluene-d8 (Surr)	108		75 - 123	11/30/16 13:20	12/02/16 19:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Phenanthrene	0.023	J	0.037	0.0052	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Carbazole	<0.19	*	0.19	0.093	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Fluoranthene	0.050		0.037	0.0069	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Pyrene	0.048		0.037	0.0074	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Benzo[a]anthracene	0.025	J	0.037	0.0050	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.037	0.010	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Benzo[b]fluoranthene	0.046		0.037	0.0080	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Benzo[a]pyrene	0.031	J	0.037	0.0072	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.037	0.0096	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Dibenz(a,h)anthracene	0.010	J	0.037	0.0072	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/06/16 16:39	12/07/16 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130				12/06/16 16:39	12/07/16 12:48	1
Phenol-d5	95		36 - 123				12/06/16 16:39	12/07/16 12:48	1
Nitrobenzene-d5	85		33 - 124				12/06/16 16:39	12/07/16 12:48	1
2-Fluorobiphenyl	79		42 - 115				12/06/16 16:39	12/07/16 12:48	1
2,4,6-Tribromophenol	55		25 - 130				12/06/16 16:39	12/07/16 12:48	1
Terphenyl-d14	89		25 - 150				12/06/16 16:39	12/07/16 12:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.73	J F1	1.0	0.21	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Arsenic	3.7		0.51	0.24	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Barium	43	F1	0.51	0.094	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Beryllium	0.45	F1	0.21	0.044	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Boron	5.0	F1	2.6	0.36	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Cadmium	0.24	F1	0.10	0.030	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Calcium	48000	B	10	3.3	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Chromium	10	B F1	0.51	0.088	mg/Kg	☼	12/02/16 09:27	12/03/16 21:26	1
Cobalt	5.6	F1	0.26	0.058	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Copper	12		0.51	0.11	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Iron	13000	B ^	10	4.0	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Lead	9.0		0.26	0.13	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Magnesium	24000		5.1	2.1	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Manganese	330		0.51	0.10	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Nickel	13	F1 B	0.51	0.14	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Potassium	1400	F1	26	4.2	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Selenium	0.31	J F1	0.51	0.25	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Sodium	640		51	6.8	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Thallium	0.98	F1	0.51	0.25	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Vanadium	16		0.26	0.075	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1
Zinc	34	F1	1.0	0.32	mg/Kg	☼	12/02/16 09:27	12/02/16 22:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:24	1
Boron	0.078	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 89.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0025	J	0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Iron	<0.40		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Manganese	0.95		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:24	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 21:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0091	mg/Kg	☼	11/30/16 14:45	12/02/16 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0		0.2	0.2	SU	-		12/02/16 17:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	11/30/16 13:20	12/02/16 20:20	1
Dibromofluoromethane	97		75 - 120	11/30/16 13:20	12/02/16 20:20	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/30/16 13:20	12/02/16 20:20	1
Toluene-d8 (Surr)	103		75 - 123	11/30/16 13:20	12/02/16 20:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Phenanthrene	0.033	J	0.038	0.0054	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Carbazole	<0.19	*	0.19	0.097	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Fluoranthene	0.053		0.038	0.0072	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Pyrene	0.050		0.038	0.0077	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Benzo[a]anthracene	0.033	J	0.038	0.0052	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.038	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Benzo[b]fluoranthene	0.055		0.038	0.0083	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Benzo[a]pyrene	0.041		0.038	0.0075	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.010	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Dibenz(a,h)anthracene	0.012	J	0.038	0.0075	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		40 - 130				12/06/16 16:39	12/07/16 13:16	1
Phenol-d5	83		36 - 123				12/06/16 16:39	12/07/16 13:16	1
Nitrobenzene-d5	66		33 - 124				12/06/16 16:39	12/07/16 13:16	1
2-Fluorobiphenyl	62		42 - 115				12/06/16 16:39	12/07/16 13:16	1
2,4,6-Tribromophenol	40		25 - 130				12/06/16 16:39	12/07/16 13:16	1
Terphenyl-d14	78		25 - 150				12/06/16 16:39	12/07/16 13:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.2	0.24	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Arsenic	5.9		0.58	0.27	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Barium	97		0.58	0.11	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Beryllium	0.71		0.23	0.050	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Boron	6.9		2.9	0.41	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Cadmium	0.50		0.12	0.034	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Calcium	23000	B	12	3.7	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Chromium	13	B	0.58	0.10	mg/Kg	☼	12/02/16 09:27	12/03/16 21:48	1
Cobalt	6.0		0.29	0.065	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Copper	16		0.58	0.13	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Iron	17000	B ^	12	4.5	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Lead	81		0.29	0.14	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Magnesium	10000		5.8	2.4	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Manganese	440		0.58	0.11	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Nickel	15	B	0.58	0.16	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Potassium	930		29	4.7	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Selenium	0.46	J	0.58	0.29	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Silver	0.10	J	0.29	0.068	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Sodium	970		58	7.6	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Thallium	1.4		0.58	0.29	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Vanadium	27		0.29	0.085	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1
Zinc	89		1.2	0.37	mg/Kg	☼	12/02/16 09:27	12/02/16 22:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:29	1
Boron	0.061	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 82.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0042	J	0.0050	0.0020	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Iron	<0.40		0.40	0.20	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Lead	0.016		0.0075	0.0075	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Manganese	0.49		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Silver	<0.025		0.025	0.010	mg/L	-	12/02/16 14:06	12/03/16 22:29	1
Zinc	0.10	J	0.50	0.020	mg/L	-	12/02/16 14:06	12/03/16 22:29	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.30		0.0075	0.0075	mg/L	-	12/02/16 14:10	12/05/16 22:02	1
Manganese	0.80		0.025	0.010	mg/L	-	12/02/16 14:10	12/05/16 22:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/02/16 14:06	12/05/16 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/02/16 14:06	12/05/16 12:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/02/16 10:45	12/05/16 12:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.019	0.010	mg/Kg	☼	11/30/16 14:45	12/02/16 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.1		0.2	0.2	SU	-		12/02/16 17:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 75.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050		0.021	0.0090	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Benzene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
2-Butanone (MEK)	0.0076		0.0051	0.0023	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Chloroform	<0.0021		0.0021	0.00071	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00057	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,1-Dichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Ethylbenzene	<0.0021		0.0021	0.00098	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00060	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	11/30/16 13:20	12/02/16 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	11/30/16 13:20	12/02/16 20:45	1
Dibromofluoromethane	96		75 - 120	11/30/16 13:20	12/02/16 20:45	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134	11/30/16 13:20	12/02/16 20:45	1
Toluene-d8 (Surr)	104		75 - 123	11/30/16 13:20	12/02/16 20:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Naphthalene	0.11		0.043	0.0066	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Methylnaphthalene	0.19		0.086	0.0079	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Acenaphthylene	0.13		0.043	0.0057	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Acenaphthene	0.012 J		0.043	0.0077	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Dibenzofuran	0.078 J		0.22	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Fluorene	0.012 J		0.043	0.0060	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Phenanthrene	0.37		0.043	0.0060	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Anthracene	0.10		0.043	0.0072	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Carbazole	<0.22 *		0.22	0.11	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Fluoranthene	0.46		0.043	0.0079	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Pyrene	0.43		0.043	0.0085	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Benzo[a]anthracene	0.28		0.043	0.0058	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.31		0.043	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Benzo[b]fluoranthene	0.61		0.043	0.0092	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Benzo[k]fluoranthene	0.20		0.043	0.013	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Benzo[a]pyrene	0.36		0.043	0.0083	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Indeno[1,2,3-cd]pyrene	0.11		0.043	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Dibenz(a,h)anthracene	0.046		0.043	0.0083	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Benzo[g,h,i]perylene	0.089		0.043	0.014	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	12/06/16 16:39	12/07/16 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130				12/06/16 16:39	12/07/16 14:12	1
Phenol-d5	103		36 - 123				12/06/16 16:39	12/07/16 14:12	1
Nitrobenzene-d5	84		33 - 124				12/06/16 16:39	12/07/16 14:12	1
2-Fluorobiphenyl	80		42 - 115				12/06/16 16:39	12/07/16 14:12	1
2,4,6-Tribromophenol	74		25 - 130				12/06/16 16:39	12/07/16 14:12	1
Terphenyl-d14	93		25 - 150				12/06/16 16:39	12/07/16 14:12	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.021		0.021	0.0076	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1221	<0.021		0.021	0.0094	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1232	<0.021		0.021	0.0093	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1242	<0.021		0.021	0.0070	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1248	<0.021		0.021	0.0084	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1254	<0.021		0.021	0.0046	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
PCB-1260	<0.021		0.021	0.011	mg/Kg	☼	12/06/16 19:00	12/07/16 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		41 - 124				12/06/16 19:00	12/07/16 13:00	1
DCB Decachlorobiphenyl	88		47 - 127				12/06/16 19:00	12/07/16 13:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2	J	6.1	1.3	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Arsenic	7.9		3.1	1.4	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Barium	210		3.1	0.56	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Beryllium	1.4		1.2	0.26	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Boron	27		15	2.1	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Cadmium	1.1		0.61	0.18	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Calcium	10000	B	61	20	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Chromium	15	B	3.1	0.53	mg/Kg	☼	12/02/16 09:27	12/03/16 21:53	5
Cobalt	8.1		1.5	0.35	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Copper	52		3.1	0.66	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Iron	40000	B ^	61	24	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Lead	140		1.5	0.76	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Magnesium	1800		31	12	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Manganese	440		3.1	0.61	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 75.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	24	B	3.1	0.83	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Potassium	1000		150	25	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Selenium	2.0	J	3.1	1.5	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Silver	<1.5		1.5	0.36	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Sodium	900		310	40	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Thallium	2.8	J	3.1	1.5	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Vanadium	27		1.5	0.45	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5
Zinc	240		6.1	1.9	mg/Kg	☼	12/02/16 09:27	12/02/16 23:03	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:34	1
Boron	0.35	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:34	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:34	1
Cobalt	0.014	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:34	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 22:34	1
Lead	0.079		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 22:34	1
Manganese	3.1		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:34	1
Nickel	0.012	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 22:34	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:34	1
Zinc	0.21	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 22:34	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.071		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 22:09	1
Manganese	0.24		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 22:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0098		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:27	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0063		0.0060	0.0060	mg/L		12/02/16 14:10	12/05/16 17:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.020	0.010	mg/Kg	☼	11/30/16 14:45	12/02/16 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/02/16 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.042		0.020	0.0088	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
2-Butanone (MEK)	0.0088		0.0050	0.0022	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Vinyl acetate	<0.0050		0.0050	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	11/30/16 13:20	12/02/16 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	11/30/16 13:20	12/02/16 21:09	1
Dibromofluoromethane	95		75 - 120	11/30/16 13:20	12/02/16 21:09	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	11/30/16 13:20	12/02/16 21:09	1
Toluene-d8 (Surr)	102		75 - 123	11/30/16 13:20	12/02/16 21:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Naphthalene	0.071		0.039	0.0061	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Methylnaphthalene	0.13		0.080	0.0073	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Acenaphthylene	0.13		0.039	0.0052	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Acenaphthene	0.026 J		0.039	0.0071	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Dibenzofuran	0.054 J		0.20	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Fluorene	0.025 J		0.039	0.0055	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Phenanthrene	0.49		0.039	0.0055	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Anthracene	0.15		0.039	0.0066	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Carbazole	<0.20 *		0.20	0.098	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Fluoranthene	0.77		0.039	0.0073	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Pyrene	0.75		0.039	0.0078	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Benzo[a]anthracene	0.43		0.039	0.0053	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.45		0.039	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Benzo[b]fluoranthene	0.80		0.039	0.0085	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Benzo[k]fluoranthene	0.27		0.039	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Benzo[a]pyrene	0.50		0.039	0.0076	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Indeno[1,2,3-cd]pyrene	0.14		0.039	0.010	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Dibenz(a,h)anthracene	0.057		0.039	0.0076	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
Benzo[g,h,i]perylene	0.13		0.039	0.013	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/06/16 16:39	12/07/16 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130	12/06/16 16:39	12/07/16 14:40	1
Phenol-d5	84		36 - 123	12/06/16 16:39	12/07/16 14:40	1
Nitrobenzene-d5	71		33 - 124	12/06/16 16:39	12/07/16 14:40	1
2-Fluorobiphenyl	68		42 - 115	12/06/16 16:39	12/07/16 14:40	1
2,4,6-Tribromophenol	53		25 - 130	12/06/16 16:39	12/07/16 14:40	1
Terphenyl-d14	78		25 - 150	12/06/16 16:39	12/07/16 14:40	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.021		0.021	0.0073	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1221	<0.021		0.021	0.0091	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1232	<0.021		0.021	0.0090	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1242	<0.021		0.021	0.0068	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1248	<0.021		0.021	0.0082	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1254	<0.021		0.021	0.0045	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1
PCB-1260	<0.021		0.021	0.010	mg/Kg	☼	12/06/16 19:00	12/07/16 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		41 - 124	12/06/16 19:00	12/07/16 13:15	1
DCB Decachlorobiphenyl	87		47 - 127	12/06/16 19:00	12/07/16 13:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	J	5.3	1.1	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Arsenic	6.6		2.6	1.2	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Barium	190		2.6	0.48	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Beryllium	1.8		1.1	0.23	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Boron	41		13	1.8	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Cadmium	0.98		0.53	0.15	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Calcium	9600	B	53	17	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Chromium	14	B	2.6	0.45	mg/Kg	☼	12/02/16 09:27	12/03/16 21:57	5
Cobalt	7.8		1.3	0.30	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Copper	41		2.6	0.57	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Iron	39000	B ^	53	20	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Lead	150		1.3	0.66	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Magnesium	1500		26	11	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Manganese	410		2.6	0.52	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 79.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	23	B	2.6	0.72	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Potassium	980		130	22	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Selenium	1.9	J	2.6	1.3	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Silver	<1.3		1.3	0.31	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Sodium	790		260	35	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Thallium	2.5	J	2.6	1.3	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Vanadium	25		1.3	0.39	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5
Zinc	250		5.3	1.7	mg/Kg	☼	12/02/16 09:27	12/02/16 23:10	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:39	1
Boron	0.24	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:39	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 22:39	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:39	1
Cobalt	0.017	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:39	1
Iron	0.33	J	0.40	0.20	mg/L		12/02/16 14:06	12/03/16 22:39	1
Lead	0.0099		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 22:39	1
Manganese	2.3		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:39	1
Nickel	0.017	J	0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:39	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 22:39	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:39	1
Zinc	0.43	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 22:39	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.097		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 22:31	1
Manganese	0.25		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 22:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.018	0.0094	mg/Kg	☼	11/30/16 14:45	12/02/16 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/02/16 17:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.018	0.0079	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	11/30/16 13:20	12/02/16 21:34	1
Dibromofluoromethane	93		75 - 120	11/30/16 13:20	12/02/16 21:34	1
1,2-Dichloroethane-d4 (Surr)	96		69 - 134	11/30/16 13:20	12/02/16 21:34	1
Toluene-d8 (Surr)	103		75 - 123	11/30/16 13:20	12/02/16 21:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Naphthalene	0.020	J	0.042	0.0065	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Methylnaphthalene	0.056	J	0.086	0.0078	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Acenaphthylene	0.033	J	0.042	0.0056	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Phenanthrene	0.13		0.042	0.0059	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Anthracene	0.032	J	0.042	0.0071	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Carbazole	<0.21	*	0.21	0.11	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Fluoranthene	0.19		0.042	0.0079	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Pyrene	0.18		0.042	0.0084	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Benzo[a]anthracene	0.11		0.042	0.0057	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.042	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Benzo[b]fluoranthene	0.20		0.042	0.0092	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Benzo[k]fluoranthene	0.071		0.042	0.013	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Benzo[a]pyrene	0.13		0.042	0.0082	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Indeno[1,2,3-cd]pyrene	0.061		0.042	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Dibenz(a,h)anthracene	0.022	J	0.042	0.0082	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Benzo[g,h,i]perylene	0.052		0.042	0.014	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	12/06/16 16:39	12/07/16 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		40 - 130				12/06/16 16:39	12/07/16 13:44	1
Phenol-d5	78		36 - 123				12/06/16 16:39	12/07/16 13:44	1
Nitrobenzene-d5	64		33 - 124				12/06/16 16:39	12/07/16 13:44	1
2-Fluorobiphenyl	61		42 - 115				12/06/16 16:39	12/07/16 13:44	1
2,4,6-Tribromophenol	48		25 - 130				12/06/16 16:39	12/07/16 13:44	1
Terphenyl-d14	71		25 - 150				12/06/16 16:39	12/07/16 13:44	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.021		0.021	0.0073	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1221	<0.021		0.021	0.0091	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1232	<0.021		0.021	0.0090	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1242	<0.021		0.021	0.0068	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1248	<0.021		0.021	0.0081	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1254	<0.021		0.021	0.0044	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
PCB-1260	<0.021		0.021	0.010	mg/Kg	☼	12/06/16 19:00	12/07/16 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		41 - 124				12/06/16 19:00	12/07/16 13:31	1
DCB Decachlorobiphenyl	98		47 - 127				12/06/16 19:00	12/07/16 13:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2	J	6.2	1.3	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Arsenic	9.0		3.1	1.4	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Barium	140		3.1	0.56	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Beryllium	1.5		1.2	0.27	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Boron	22		15	2.2	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Cadmium	1.4		0.62	0.18	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Calcium	6400	B	62	20	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Chromium	14	B	3.1	0.53	mg/Kg	☼	12/02/16 09:27	12/03/16 22:08	5
Cobalt	8.4		1.5	0.35	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Copper	70		3.1	0.67	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Iron	48000	B ^	62	24	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Lead	82		1.5	0.77	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Magnesium	1100		31	13	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Manganese	500		3.1	0.61	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 77.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	24	B	3.1	0.83	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Potassium	640		150	25	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Selenium	2.3	J	3.1	1.5	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Silver	<1.5		1.5	0.36	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Sodium	470		310	41	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Thallium	3.0	J	3.1	1.5	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Vanadium	26		1.5	0.45	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5
Zinc	330		6.2	1.9	mg/Kg	☼	12/02/16 09:27	12/02/16 23:16	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:43	1
Boron	0.17	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 22:43	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:43	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:43	1
Iron	0.31	J	0.40	0.20	mg/L		12/02/16 14:06	12/03/16 22:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 22:43	1
Manganese	1.4		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:43	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:43	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 22:43	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:43	1
Zinc	0.29	J	0.50	0.020	mg/L		12/02/16 14:06	12/03/16 22:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 22:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.021	0.011	mg/Kg	☼	11/30/16 14:45	12/02/16 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			12/02/16 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	11/30/16 13:20	12/02/16 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	11/30/16 13:20	12/02/16 21:58	1
Dibromofluoromethane	96		75 - 120	11/30/16 13:20	12/02/16 21:58	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	11/30/16 13:20	12/02/16 21:58	1
Toluene-d8 (Surr)	101		75 - 123	11/30/16 13:20	12/02/16 21:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Carbazole	<0.19 *		0.19	0.095	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Bis(2-ethylhexyl) phthalate	0.070	J	0.19	0.069	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/06/16 16:39	12/07/16 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		40 - 130	12/06/16 16:39	12/07/16 11:24	1
Phenol-d5	86		36 - 123	12/06/16 16:39	12/07/16 11:24	1
Nitrobenzene-d5	71		33 - 124	12/06/16 16:39	12/07/16 11:24	1
2-Fluorobiphenyl	65		42 - 115	12/06/16 16:39	12/07/16 11:24	1
2,4,6-Tribromophenol	28		25 - 130	12/06/16 16:39	12/07/16 11:24	1
Terphenyl-d14	83		25 - 150	12/06/16 16:39	12/07/16 11:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019	0.0068	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1221	<0.019		0.019	0.0084	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1232	<0.019		0.019	0.0083	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1242	<0.019		0.019	0.0063	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1248	<0.019		0.019	0.0075	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1254	<0.019		0.019	0.0041	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1
PCB-1260	0.012	J	0.019	0.0094	mg/Kg	☼	12/06/16 19:00	12/07/16 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		41 - 124	12/06/16 19:00	12/07/16 10:43	1
DCB Decachlorobiphenyl	91		47 - 127	12/06/16 19:00	12/07/16 10:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.24	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Arsenic	4.3		0.57	0.26	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Barium	53		0.57	0.10	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Beryllium	0.45		0.23	0.049	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Boron	2.9		2.8	0.40	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Cadmium	0.060	J	0.11	0.033	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Calcium	2200	B	11	3.7	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Chromium	11	B	0.57	0.098	mg/Kg	☼	12/02/16 09:27	12/03/16 22:12	1
Cobalt	5.7		0.28	0.064	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Copper	8.7		0.57	0.12	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Iron	12000	B ^	11	4.4	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Lead	5.6		0.28	0.14	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Magnesium	1500		5.7	2.3	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Manganese	480		0.57	0.11	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	12	B	0.57	0.15	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Potassium	590		28	4.6	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Selenium	0.33	J	0.57	0.28	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Sodium	170		57	7.5	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Thallium	1.1		0.57	0.28	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Vanadium	22		0.28	0.083	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1
Zinc	22		1.1	0.36	mg/Kg	☼	12/02/16 09:27	12/02/16 23:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 22:48	1
Boron	0.066	J B	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 22:48	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:48	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:48	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 22:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 22:48	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:48	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 22:48	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 22:48	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 22:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 12:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 12:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0096	mg/Kg	☼	11/30/16 14:45	12/02/16 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/02/16 17:50	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

GC/MS VOA

Prep Batch: 363131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	5035	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	5035	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	5035	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	5035	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	5035	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	5035	

Analysis Batch: 363336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	8260B	363131
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	8260B	363131
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	8260B	363131
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	8260B	363131
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	8260B	363131
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	8260B	363131
MB 500-363336/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-363336/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-363336/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 363857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	3541	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	3541	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	3541	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	3541	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	3541	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	3541	
MB 500-363857/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-363857/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 363926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	8270D	363857
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	8270D	363857
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	8270D	363857
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	8270D	363857
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	8270D	363857
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	8270D	363857
MB 500-363857/1-A	Method Blank	Total/NA	Solid	8270D	363857
LCS 500-363857/2-A	Lab Control Sample	Total/NA	Solid	8270D	363857

GC Semi VOA

Prep Batch: 363872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	3541	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	3541	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

GC Semi VOA (Continued)

Prep Batch: 363872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	3541	
MB 500-363872/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-363872/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-120748-6 MS	1314V3-21-B01 (5-10)	Total/NA	Solid	3541	
500-120748-6 MSD	1314V3-21-B01 (5-10)	Total/NA	Solid	3541	

Analysis Batch: 363948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	8082A	363872
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	8082A	363872
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	8082A	363872
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	8082A	363872
MB 500-363872/1-A	Method Blank	Total/NA	Solid	8082A	363872
LCS 500-363872/2-A	Lab Control Sample	Total/NA	Solid	8082A	363872
500-120748-6 MS	1314V3-21-B01 (5-10)	Total/NA	Solid	8082A	363872
500-120748-6 MSD	1314V3-21-B01 (5-10)	Total/NA	Solid	8082A	363872

Metals

Prep Batch: 362981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	7471B	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	7471B	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	7471B	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	7471B	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	7471B	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	7471B	
MB 500-362981/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-362981/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 363172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	1311	
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	1311	
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	1311	
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	1311	
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	1311	
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	1311	
LB 500-363172/1-B	Method Blank	TCLP	Solid	1311	
LB 500-363172/1-C	Method Blank	TCLP	Solid	1311	
500-120748-6 MS	1314V3-21-B01 (5-10)	TCLP	Solid	1311	
500-120748-6 DU	1314V3-21-B01 (5-10)	TCLP	Solid	1311	

Leach Batch: 363174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	SPLP East	Solid	1312	
500-120748-2	1314V3-75-B01 (0-2)	SPLP East	Solid	1312	
500-120748-3	1314V3-21-B02 (0-6)	SPLP East	Solid	1312	
500-120748-4	1314V3-21-B02 (0-6)D	SPLP East	Solid	1312	
500-120748-5	1314V3-21-B01 (0-5)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Metals (Continued)

Leach Batch: 363174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-363174/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 363316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	3050B	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	3050B	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	3050B	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	3050B	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	3050B	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	3050B	
MB 500-363316/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-363316/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-120748-1 MS	1314V3-74-B01 (0-2)	Total/NA	Solid	3050B	
500-120748-1 MSD	1314V3-74-B01 (0-2)	Total/NA	Solid	3050B	
500-120748-1 DU	1314V3-74-B01 (0-2)	Total/NA	Solid	3050B	

Analysis Batch: 363327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	7471B	362981
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	7471B	362981
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	7471B	362981
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	7471B	362981
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	7471B	362981
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	7471B	362981
MB 500-362981/12-A	Method Blank	Total/NA	Solid	7471B	362981
LCS 500-362981/13-A	Lab Control Sample	Total/NA	Solid	7471B	362981

Prep Batch: 363342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	7470A	363172
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	7470A	363172
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	7470A	363172
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	7470A	363172
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	7470A	363172
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	7470A	363172
LB 500-363172/1-B	Method Blank	TCLP	Solid	7470A	363172
MB 500-363342/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-363342/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 363379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	3010A	363172
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	3010A	363172
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	3010A	363172
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	3010A	363172
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	3010A	363172
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	3010A	363172
LB 500-363172/1-C	Method Blank	TCLP	Solid	3010A	363172
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-120748-6 MS	1314V3-21-B01 (5-10)	TCLP	Solid	3010A	363172
500-120748-6 DU	1314V3-21-B01 (5-10)	TCLP	Solid	3010A	363172

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Prep Batch: 363388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	SPLP East	Solid	3010A	363174
500-120748-2	1314V3-75-B01 (0-2)	SPLP East	Solid	3010A	363174
500-120748-3	1314V3-21-B02 (0-6)	SPLP East	Solid	3010A	363174
500-120748-4	1314V3-21-B02 (0-6)D	SPLP East	Solid	3010A	363174
500-120748-5	1314V3-21-B01 (0-5)	SPLP East	Solid	3010A	363174
LB 500-363174/1-B	Method Blank	SPLP East	Solid	3010A	363174
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 363473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	6010B	363316
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	6010B	363316
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	6010B	363316
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	6010B	363316
MB 500-363316/1-A	Method Blank	Total/NA	Solid	6010B	363316
LCS 500-363316/2-A	Lab Control Sample	Total/NA	Solid	6010B	363316
500-120748-1 MS	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-1 MSD	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-1 DU	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316

Analysis Batch: 363546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	6010B	363316
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	6010B	363316
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	6010B	363316
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	6010B	363316
MB 500-363316/1-A	Method Blank	Total/NA	Solid	6010B	363316
LCS 500-363316/2-A	Lab Control Sample	Total/NA	Solid	6010B	363316
500-120748-1 MS	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-1 MSD	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316
500-120748-1 DU	1314V3-74-B01 (0-2)	Total/NA	Solid	6010B	363316

Analysis Batch: 363547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	6010B	363379
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	6010B	363379
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	6010B	363379
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	6010B	363379
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	6010B	363379
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	6010B	363379
LB 500-363172/1-C	Method Blank	TCLP	Solid	6010B	363379
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	6010B	363379
500-120748-6 MS	1314V3-21-B01 (5-10)	TCLP	Solid	6010B	363379
500-120748-6 DU	1314V3-21-B01 (5-10)	TCLP	Solid	6010B	363379

Analysis Batch: 363643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	7470A	363342
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	7470A	363342

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Metals (Continued)

Analysis Batch: 363643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	7470A	363342
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	7470A	363342
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	7470A	363342
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	7470A	363342
LB 500-363172/1-B	Method Blank	TCLP	Solid	7470A	363342
MB 500-363342/12-A	Method Blank	Total/NA	Solid	7470A	363342
LCS 500-363342/13-A	Lab Control Sample	Total/NA	Solid	7470A	363342

Analysis Batch: 363685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	TCLP	Solid	6020A	363379
500-120748-2	1314V3-75-B01 (0-2)	TCLP	Solid	6020A	363379
500-120748-3	1314V3-21-B02 (0-6)	TCLP	Solid	6020A	363379
500-120748-4	1314V3-21-B02 (0-6)D	TCLP	Solid	6020A	363379
500-120748-5	1314V3-21-B01 (0-5)	TCLP	Solid	6020A	363379
500-120748-6	1314V3-21-B01 (5-10)	TCLP	Solid	6020A	363379
LB 500-363172/1-C	Method Blank	TCLP	Solid	6020A	363379
LCS 500-363379/2-A	Lab Control Sample	Total/NA	Solid	6020A	363379
500-120748-6 MS	1314V3-21-B01 (5-10)	TCLP	Solid	6020A	363379
500-120748-6 DU	1314V3-21-B01 (5-10)	TCLP	Solid	6020A	363379

Analysis Batch: 363732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	SPLP East	Solid	6010B	363388
500-120748-2	1314V3-75-B01 (0-2)	SPLP East	Solid	6010B	363388
500-120748-3	1314V3-21-B02 (0-6)	SPLP East	Solid	6010B	363388
500-120748-4	1314V3-21-B02 (0-6)D	SPLP East	Solid	6010B	363388
500-120748-5	1314V3-21-B01 (0-5)	SPLP East	Solid	6010B	363388
LB 500-363174/1-B	Method Blank	SPLP East	Solid	6010B	363388
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	6010B	363388

Analysis Batch: 363753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-3	1314V3-21-B02 (0-6)	SPLP East	Solid	6020A	363388
LB 500-363174/1-B	Method Blank	SPLP East	Solid	6020A	363388
LCS 500-363388/2-A	Lab Control Sample	Total/NA	Solid	6020A	363388

General Chemistry

Analysis Batch: 362966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	Moisture	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	Moisture	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	Moisture	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	Moisture	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	Moisture	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

General Chemistry (Continued)

Analysis Batch: 363480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120748-1	1314V3-74-B01 (0-2)	Total/NA	Solid	9045D	
500-120748-2	1314V3-75-B01 (0-2)	Total/NA	Solid	9045D	
500-120748-3	1314V3-21-B02 (0-6)	Total/NA	Solid	9045D	
500-120748-4	1314V3-21-B02 (0-6)D	Total/NA	Solid	9045D	
500-120748-5	1314V3-21-B01 (0-5)	Total/NA	Solid	9045D	
500-120748-6	1314V3-21-B01 (5-10)	Total/NA	Solid	9045D	
500-120748-1 DU	1314V3-74-B01 (0-2)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-120748-1	1314V3-74-B01 (0-2)	128 X	98	101	108
500-120748-2	1314V3-75-B01 (0-2)	108	97	99	103
500-120748-3	1314V3-21-B02 (0-6)	107	96	100	104
500-120748-4	1314V3-21-B02 (0-6)D	109	95	101	102
500-120748-5	1314V3-21-B01 (0-5)	106	93	96	103
500-120748-6	1314V3-21-B01 (5-10)	106	96	99	101
LCS 500-363336/5	Lab Control Sample	103	93	90	103
LCSD 500-363336/6	Lab Control Sample Dup	101	97	94	103
MB 500-363336/7	Method Blank	102	92	87	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-120748-1	1314V3-74-B01 (0-2)	99	95	85	79	55	89
500-120748-2	1314V3-75-B01 (0-2)	78	83	66	62	40	78
500-120748-3	1314V3-21-B02 (0-6)	101	103	84	80	74	93
500-120748-4	1314V3-21-B02 (0-6)D	83	84	71	68	53	78
500-120748-5	1314V3-21-B01 (0-5)	72	78	64	61	48	71
500-120748-6	1314V3-21-B01 (5-10)	85	86	71	65	28	83
LCS 500-363857/2-A	Lab Control Sample	101	102	87	83	66	89
MB 500-363857/1-A	Method Blank	103	96	89	84	53	94

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (41-124)	DCB1 (47-127)
500-120748-3	1314V3-21-B02 (0-6)	93	88
500-120748-4	1314V3-21-B02 (0-6)D	90	87
500-120748-5	1314V3-21-B01 (0-5)	123	98
500-120748-6	1314V3-21-B01 (5-10)	73	91
500-120748-6 MS	1314V3-21-B01 (5-10)	91	109

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Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (41-124)	DCB1 (47-127)
500-120748-6 MSD	1314V3-21-B01 (5-10)	81	92
LCS 500-363872/2-A	Lab Control Sample	88	89
MB 500-363872/1-A	Method Blank	94	95

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363336/7

Matrix: Solid

Analysis Batch: 363336

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/02/16 14:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/02/16 14:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/02/16 14:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/02/16 14:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/02/16 14:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/02/16 14:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/02/16 14:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/02/16 14:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/02/16 14:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/02/16 14:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/02/16 14:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/02/16 14:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/02/16 14:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/02/16 14:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/02/16 14:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/02/16 14:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/02/16 14:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/02/16 14:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/02/16 14:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/02/16 14:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/02/16 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/02/16 14:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/02/16 14:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/02/16 14:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/02/16 14:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/02/16 14:10	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/02/16 14:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/02/16 14:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/02/16 14:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/02/16 14:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/02/16 14:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/02/16 14:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/02/16 14:10	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/02/16 14:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/02/16 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120		12/02/16 14:10	1
Dibromofluoromethane	92		75 - 120		12/02/16 14:10	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 134		12/02/16 14:10	1
Toluene-d8 (Surr)	101		75 - 123		12/02/16 14:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363336/5

Matrix: Solid

Analysis Batch: 363336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0463		mg/Kg		93	40 - 148
Benzene	0.0500	0.0478		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 120
Bromoform	0.0500	0.0485		mg/Kg		97	50 - 129
Bromomethane	0.0500	0.0418		mg/Kg		84	50 - 134
2-Butanone (MEK)	0.0500	0.0445		mg/Kg		89	47 - 138
Carbon disulfide	0.0500	0.0503		mg/Kg		101	67 - 133
Carbon tetrachloride	0.0500	0.0487		mg/Kg		97	65 - 123
Chlorobenzene	0.0500	0.0488		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0622		mg/Kg		124	40 - 150
Chloroform	0.0500	0.0495		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0463		mg/Kg		93	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	68 - 120
1,1-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	65 - 126
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 122
1,2-Dichloropropane	0.0500	0.0470		mg/Kg		94	70 - 126
Ethylbenzene	0.0500	0.0499		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0431		mg/Kg		86	51 - 139
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0465		mg/Kg		93	51 - 141
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	70 - 121
Styrene	0.0500	0.0499		mg/Kg		100	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0492		mg/Kg		98	70 - 125
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 122
Toluene	0.0500	0.0504		mg/Kg		101	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 121
1,1,1-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 120
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 124
Vinyl acetate	0.0500	0.0441		mg/Kg		88	40 - 150
Vinyl chloride	0.0500	0.0472		mg/Kg		94	64 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	90		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-363336/6

Matrix: Solid

Analysis Batch: 363336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0439		mg/Kg		88	40 - 148	5	30
Benzene	0.0500	0.0522		mg/Kg		104	70 - 120	9	30
Bromodichloromethane	0.0500	0.0531		mg/Kg		106	67 - 120	8	30
Bromoform	0.0500	0.0550		mg/Kg		110	50 - 129	12	30
Bromomethane	0.0500	0.0479		mg/Kg		96	50 - 134	13	30
2-Butanone (MEK)	0.0500	0.0449		mg/Kg		90	47 - 138	1	30
Carbon disulfide	0.0500	0.0542		mg/Kg		108	67 - 133	8	30
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	65 - 123	8	30
Chlorobenzene	0.0500	0.0530		mg/Kg		106	70 - 120	8	30
Chloroethane	0.0500	0.0553		mg/Kg		111	40 - 150	12	30
Chloroform	0.0500	0.0542		mg/Kg		108	70 - 120	9	30
Chloromethane	0.0500	0.0502		mg/Kg		100	63 - 135	8	30
cis-1,2-Dichloroethene	0.0500	0.0533		mg/Kg		107	70 - 120	9	30
cis-1,3-Dichloropropene	0.0500	0.0542		mg/Kg		108	70 - 120	8	30
Dibromochloromethane	0.0500	0.0550		mg/Kg		110	68 - 120	11	30
1,1-Dichloroethane	0.0500	0.0526		mg/Kg		105	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0528		mg/Kg		106	65 - 126	11	30
1,1-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 122	8	30
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 126	10	30
Ethylbenzene	0.0500	0.0533		mg/Kg		107	70 - 120	6	30
2-Hexanone	0.0500	0.0476		mg/Kg		95	51 - 139	10	30
Methylene Chloride	0.0500	0.0562		mg/Kg		112	70 - 121	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0489		mg/Kg		98	51 - 141	5	30
Methyl tert-butyl ether	0.0500	0.0546		mg/Kg		109	70 - 121	15	30
Styrene	0.0500	0.0540		mg/Kg		108	70 - 121	8	30
1,1,1,2-Tetrachloroethane	0.0500	0.0555		mg/Kg		111	70 - 125	12	30
Tetrachloroethene	0.0500	0.0549		mg/Kg		110	70 - 122	7	30
Toluene	0.0500	0.0530		mg/Kg		106	70 - 121	5	30
trans-1,2-Dichloroethene	0.0500	0.0540		mg/Kg		108	70 - 120	8	30
trans-1,3-Dichloropropene	0.0500	0.0523		mg/Kg		105	70 - 121	7	30
1,1,1-Trichloroethane	0.0500	0.0528		mg/Kg		106	70 - 120	7	30
1,1,2-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120	12	30
Trichloroethene	0.0500	0.0525		mg/Kg		105	70 - 124	6	30
Vinyl acetate	0.0500	0.0498		mg/Kg		100	40 - 150	12	30
Vinyl chloride	0.0500	0.0516		mg/Kg		103	64 - 125	9	30
Xylenes, Total	0.100	0.110		mg/Kg		110	70 - 123	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		70 - 120
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363857/1-A

Matrix: Solid

Analysis Batch: 363926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 363857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/06/16 16:39	12/07/16 10:56	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-363857/1-A
Matrix: Solid
Analysis Batch: 363926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/06/16 16:39	12/07/16 10:56	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/06/16 16:39	12/07/16 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/06/16 16:39	12/07/16 10:56	1
Phenol-d5	96		36 - 123	12/06/16 16:39	12/07/16 10:56	1
Nitrobenzene-d5	89		33 - 124	12/06/16 16:39	12/07/16 10:56	1
2-Fluorobiphenyl	84		42 - 115	12/06/16 16:39	12/07/16 10:56	1
2,4,6-Tribromophenol	53		25 - 130	12/06/16 16:39	12/07/16 10:56	1
Terphenyl-d14	94		25 - 150	12/06/16 16:39	12/07/16 10:56	1

Lab Sample ID: LCS 500-363857/2-A
Matrix: Solid
Analysis Batch: 363926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.47		mg/Kg		110	55 - 118
Bis(2-chloroethyl)ether	1.33	1.28		mg/Kg		96	53 - 116
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		83	56 - 110
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	57 - 110
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	56 - 110
2-Methylphenol	1.33	1.15		mg/Kg		87	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.54		mg/Kg		115	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.36		mg/Kg		102	56 - 119
Hexachloroethane	1.33	1.18		mg/Kg		88	54 - 111
2-Chlorophenol	1.33	1.23		mg/Kg		92	57 - 117
Nitrobenzene	1.33	1.35		mg/Kg		101	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.27		mg/Kg		95	59 - 116
1,2,4-Trichlorobenzene	1.33	1.08		mg/Kg		81	60 - 116
Isophorone	1.33	1.13		mg/Kg		84	54 - 120
2,4-Dimethylphenol	1.33	1.15		mg/Kg		87	50 - 120
Hexachlorobutadiene	1.33	0.959		mg/Kg		72	56 - 120
Naphthalene	1.33	1.29		mg/Kg		97	58 - 116
2,4-Dichlorophenol	1.33	1.07		mg/Kg		80	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363857/2-A

Matrix: Solid

Analysis Batch: 363926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 363857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.74		mg/Kg		131	10 - 150
2,4,6-Trichlorophenol	1.33	0.978		mg/Kg		73	50 - 120
2,4,5-Trichlorophenol	1.33	1.05		mg/Kg		79	42 - 119
Hexachlorocyclopentadiene	1.33	0.378	J	mg/Kg		28	10 - 116
2-Methylnaphthalene	1.33	1.10		mg/Kg		82	55 - 120
2-Nitroaniline	1.33	1.44		mg/Kg		108	52 - 121
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	57 - 112
4-Chloro-3-methylphenol	1.33	1.20		mg/Kg		90	59 - 117
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		90	57 - 118
2-Nitrophenol	1.33	1.20		mg/Kg		90	58 - 121
3-Nitroaniline	1.33	1.23		mg/Kg		92	20 - 144
Dimethyl phthalate	1.33	1.13		mg/Kg		85	60 - 112
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		20	10 - 110
Acenaphthylene	1.33	1.17		mg/Kg		88	57 - 116
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		86	59 - 119
Acenaphthene	1.33	1.08		mg/Kg		81	52 - 113
Dibenzofuran	1.33	1.17		mg/Kg		88	59 - 110
4-Nitrophenol	2.67	1.96		mg/Kg		74	32 - 123
Fluorene	1.33	1.18		mg/Kg		88	56 - 115
4-Nitroaniline	1.33	1.78		mg/Kg		133	55 - 146
4-Bromophenyl phenyl ether	1.33	1.08		mg/Kg		81	61 - 124
Hexachlorobenzene	1.33	1.05		mg/Kg		79	62 - 126
Diethyl phthalate	1.33	1.15		mg/Kg		87	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		84	61 - 111
Pentachlorophenol	2.67	0.924		mg/Kg		35	12 - 116
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.03		mg/Kg		39	10 - 110
Phenanthrene	1.33	1.19		mg/Kg		89	58 - 125
Anthracene	1.33	1.19		mg/Kg		89	57 - 118
Carbazole	1.33	1.85	*	mg/Kg		139	65 - 137
Di-n-butyl phthalate	1.33	1.27		mg/Kg		96	61 - 123
Fluoranthene	1.33	1.13		mg/Kg		85	61 - 124
Pyrene	1.33	1.20		mg/Kg		90	60 - 115
Butyl benzyl phthalate	1.33	1.36		mg/Kg		102	61 - 115
Benzo[a]anthracene	1.33	1.19		mg/Kg		89	63 - 115
Chrysene	1.33	1.16		mg/Kg		87	63 - 118
3,3'-Dichlorobenzidine	1.33	1.10		mg/Kg		83	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.46		mg/Kg		110	62 - 117
Di-n-octyl phthalate	1.33	1.33		mg/Kg		100	58 - 129
Benzo[b]fluoranthene	1.33	1.15		mg/Kg		86	61 - 123
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	59 - 125
Benzo[a]pyrene	1.33	1.18		mg/Kg		88	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.19		mg/Kg		90	50 - 149
Dibenz(a,h)anthracene	1.33	1.19		mg/Kg		89	61 - 134
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	55 - 134
3 & 4 Methylphenol	1.33	1.30		mg/Kg		98	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363857/2-A
Matrix: Solid
Analysis Batch: 363926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363857

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	101		40 - 130
Phenol-d5	102		36 - 123
Nitrobenzene-d5	87		33 - 124
2-Fluorobiphenyl	83		42 - 115
2,4,6-Tribromophenol	66		25 - 130
Terphenyl-d14	89		25 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-363872/1-A
Matrix: Solid
Analysis Batch: 363948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017	0.0059	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1221	<0.017		0.017	0.0073	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1232	<0.017		0.017	0.0073	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1242	<0.017		0.017	0.0055	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1248	<0.017		0.017	0.0066	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1254	<0.017		0.017	0.0036	mg/Kg		12/06/16 19:00	12/07/16 09:27	1
PCB-1260	<0.017		0.017	0.0082	mg/Kg		12/06/16 19:00	12/07/16 09:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		41 - 124	12/06/16 19:00	12/07/16 09:27	1
DCB Decachlorobiphenyl	95		47 - 127	12/06/16 19:00	12/07/16 09:27	1

Lab Sample ID: LCS 500-363872/2-A
Matrix: Solid
Analysis Batch: 363948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	0.167	0.144		mg/Kg		86	60 - 118
PCB-1260	0.167	0.153		mg/Kg		92	66 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	88		41 - 124
DCB Decachlorobiphenyl	89		47 - 127

Lab Sample ID: 500-120748-6 MS
Matrix: Solid
Analysis Batch: 363948

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: Total/NA
Prep Batch: 363872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	<0.019		0.189	0.193		mg/Kg	☼	102	60 - 118
PCB-1260	0.012	J	0.189	0.217		mg/Kg	☼	109	66 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-120748-6 MS
Matrix: Solid
Analysis Batch: 363948

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: Total/NA
Prep Batch: 363872

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	91		41 - 124
DCB Decachlorobiphenyl	109		47 - 127

Lab Sample ID: 500-120748-6 MSD
Matrix: Solid
Analysis Batch: 363948

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: Total/NA
Prep Batch: 363872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
PCB-1016	<0.019		0.189	0.167		mg/Kg	☼	88	60 - 118	14	30
PCB-1260	0.012	J	0.189	0.185		mg/Kg	☼	91	66 - 125	16	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	81		41 - 124
DCB Decachlorobiphenyl	92		47 - 127

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-363316/1-A
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363316

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Barium	<1.0		1.0	0.18	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Boron	<5.0		5.0	0.70	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Calcium	7.21	J	20	6.4	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Copper	<1.0		1.0	0.22	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Iron	8.21	J	20	7.7	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Lead	<0.50		0.50	0.25	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Magnesium	<10		10	4.1	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Nickel	0.360	J	1.0	0.27	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Potassium	<50		50	8.2	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Silver	<0.50		0.50	0.12	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Sodium	<100		100	13	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/02/16 09:27	12/02/16 21:53	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/02/16 09:27	12/02/16 21:53	1

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-363316/1-A
Matrix: Solid
Analysis Batch: 363546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.800	J	1.0	0.17	mg/Kg		12/02/16 09:27	12/03/16 21:17	1

Lab Sample ID: LCS 500-363316/2-A
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.5		mg/Kg		91	80 - 120
Arsenic	10.0	9.38		mg/Kg		94	80 - 120
Barium	200	194		mg/Kg		97	80 - 120
Beryllium	5.00	4.94		mg/Kg		99	80 - 120
Boron	100	91.9		mg/Kg		92	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Calcium	1000	978		mg/Kg		98	80 - 120
Cobalt	50.0	47.8		mg/Kg		96	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.76		mg/Kg		98	80 - 120
Magnesium	1000	961		mg/Kg		96	80 - 120
Manganese	50.0	50.6		mg/Kg		101	80 - 120
Nickel	50.0	48.0		mg/Kg		96	80 - 120
Potassium	1000	938		mg/Kg		94	80 - 120
Selenium	10.0	8.91		mg/Kg		89	80 - 120
Silver	5.00	4.75		mg/Kg		95	80 - 120
Sodium	1000	951		mg/Kg		95	80 - 120
Thallium	10.0	9.44		mg/Kg		94	80 - 120
Vanadium	50.0	49.8		mg/Kg		100	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-363316/2-A
Matrix: Solid
Analysis Batch: 363546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chromium	20.0	19.9		mg/Kg		99	80 - 120

Lab Sample ID: 500-120748-1 MS
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-74-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 363316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.73	J F1	27.4	4.87	F1	mg/Kg	☼	15	75 - 125
Arsenic	3.7		5.49	8.11		mg/Kg	☼	81	75 - 125
Barium	43	F1	110	120	F1	mg/Kg	☼	70	75 - 125
Beryllium	0.45	F1	2.74	2.48	F1	mg/Kg	☼	74	75 - 125
Boron	5.0	F1	54.9	41.1	F1	mg/Kg	☼	66	75 - 125
Cadmium	0.24	F1	2.74	2.02	F1	mg/Kg	☼	65	75 - 125
Calcium	48000	B	549	38900	4	mg/Kg	☼	-1578	75 - 125
Cobalt	5.6	F1	27.4	23.2	F1	mg/Kg	☼	64	75 - 125

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120748-1 MS
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-74-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 363316
%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Copper	12		13.7	22.2		mg/Kg	☼	75	75 - 125
Iron	13000	B ^	54.9	12300	4	mg/Kg	☼	-641	75 - 125
Lead	9.0		5.49	14.0		mg/Kg	☼	91	75 - 125
Magnesium	24000		549	19600	4	mg/Kg	☼	-746	75 - 125
Manganese	330		27.4	328	4	mg/Kg	☼	9	75 - 125
Nickel	13	F1 B	27.4	30.3	F1	mg/Kg	☼	64	75 - 125
Potassium	1400	F1	549	2290	F1	mg/Kg	☼	170	75 - 125
Selenium	0.31	J F1	5.49	3.79	F1	mg/Kg	☼	63	75 - 125
Silver	<0.26		2.74	2.09		mg/Kg	☼	76	75 - 125
Sodium	640		549	1100		mg/Kg	☼	84	75 - 125
Thallium	0.98	F1	5.49	4.66	F1	mg/Kg	☼	67	75 - 125
Vanadium	16		27.4	40.9		mg/Kg	☼	90	75 - 125
Zinc	34	F1	27.4	47.1	F1	mg/Kg	☼	49	75 - 125

Lab Sample ID: 500-120748-1 MS
Matrix: Solid
Analysis Batch: 363546

Client Sample ID: 1314V3-74-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 363316
%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Chromium	10	B F1	11.0	17.6	F1	mg/Kg	☼	68	75 - 125

Lab Sample ID: 500-120748-1 MSD
Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-74-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 363316
%Rec.

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.73	J F1	25.9	5.30	F1	mg/Kg	☼	18	75 - 125	9	20
Arsenic	3.7		5.18	8.78		mg/Kg	☼	99	75 - 125	8	20
Barium	43	F1	104	137		mg/Kg	☼	91	75 - 125	13	20
Beryllium	0.45	F1	2.59	2.79		mg/Kg	☼	90	75 - 125	12	20
Boron	5.0	F1	51.8	44.8		mg/Kg	☼	77	75 - 125	9	20
Cadmium	0.24	F1	2.59	2.22		mg/Kg	☼	76	75 - 125	9	20
Calcium	48000	B	518	45000	4	mg/Kg	☼	-508	75 - 125	14	20
Cobalt	5.6	F1	25.9	25.6		mg/Kg	☼	77	75 - 125	10	20
Copper	12		12.9	24.1		mg/Kg	☼	94	75 - 125	8	20
Iron	13000	B ^	51.8	14400	4	mg/Kg	☼	3431	75 - 125	16	20
Lead	9.0		5.18	14.2		mg/Kg	☼	100	75 - 125	2	20
Magnesium	24000		518	22700	4	mg/Kg	☼	-183	75 - 125	15	20
Manganese	330		25.9	337	4	mg/Kg	☼	44	75 - 125	3	20
Nickel	13	F1 B	25.9	33.4		mg/Kg	☼	80	75 - 125	10	20
Potassium	1400	F1	518	2560	F1	mg/Kg	☼	233	75 - 125	11	20
Selenium	0.31	J F1	5.18	4.20		mg/Kg	☼	75	75 - 125	10	20
Silver	<0.26		2.59	2.40		mg/Kg	☼	93	75 - 125	14	20
Sodium	640		518	1230		mg/Kg	☼	115	75 - 125	12	20
Thallium	0.98	F1	5.18	5.17		mg/Kg	☼	81	75 - 125	10	20
Vanadium	16		25.9	45.0		mg/Kg	☼	111	75 - 125	10	20
Zinc	34	F1	25.9	49.8	F1	mg/Kg	☼	62	75 - 125	6	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120748-1 MSD

Matrix: Solid
Analysis Batch: 363546

Client Sample ID: 1314V3-74-B01 (0-2)

Prep Type: Total/NA
Prep Batch: 363316

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chromium	10	B F1	10.4	21.1		mg/Kg	☼	107	75 - 125	18	20

Lab Sample ID: 500-120748-1 DU

Matrix: Solid
Analysis Batch: 363473

Client Sample ID: 1314V3-74-B01 (0-2)

Prep Type: Total/NA
Prep Batch: 363316

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.73	J F1	0.347	J F5	mg/Kg	☼	71	20
Arsenic	3.7		3.65		mg/Kg	☼	0.3	20
Barium	43	F1	38.0		mg/Kg	☼	12	20
Beryllium	0.45	F1	0.485		mg/Kg	☼	7	20
Boron	5.0	F1	5.88		mg/Kg	☼	17	20
Cadmium	0.24	F1	0.256		mg/Kg	☼	5	20
Calcium	48000	B	44300		mg/Kg	☼	7	20
Cobalt	5.6	F1	5.59		mg/Kg	☼	0.5	20
Copper	12		12.6		mg/Kg	☼	6	20
Iron	13000	B ^	13000		mg/Kg	☼	3	20
Lead	9.0		10.7		mg/Kg	☼	17	20
Magnesium	24000		21000		mg/Kg	☼	12	20
Manganese	330		340		mg/Kg	☼	4	20
Nickel	13	F1 B	13.2		mg/Kg	☼	4	20
Potassium	1400	F1	1460		mg/Kg	☼	8	20
Selenium	0.31	J F1	0.312	J	mg/Kg	☼	1	20
Silver	<0.26		<0.28		mg/Kg	☼	NC	20
Sodium	640		645		mg/Kg	☼	1	20
Thallium	0.98	F1	0.887		mg/Kg	☼	10	20
Vanadium	16		17.4		mg/Kg	☼	7	20
Zinc	34	F1	29.8		mg/Kg	☼	12	20

Lab Sample ID: 500-120748-1 DU

Matrix: Solid
Analysis Batch: 363546

Client Sample ID: 1314V3-74-B01 (0-2)

Prep Type: Total/NA
Prep Batch: 363316

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chromium	10	B F1	11.1		mg/Kg	☼	10	20

Lab Sample ID: LCS 500-363379/2-A

Matrix: Solid
Analysis Batch: 363547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 363379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.487	J	mg/L		97	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Boron	1.00	0.891		mg/L		89	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Chromium	0.200	0.189		mg/L		94	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0906		mg/L		91	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-363379/2-A
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.474		mg/L		95	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Silver	0.0500	0.0468		mg/L		94	80 - 120
Zinc	0.500	0.461	J	mg/L		92	80 - 120

Lab Sample ID: LCS 500-363388/2-A
Matrix: Solid
Analysis Batch: 363732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0981		mg/L		98	80 - 120
Manganese	0.500	0.517		mg/L		103	80 - 120

Lab Sample ID: LB 500-363172/1-C
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363379

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/02/16 14:06	12/03/16 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/16 14:06	12/03/16 20:58	1
Boron	0.0659	J	0.50	0.050	mg/L		12/02/16 14:06	12/03/16 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/16 14:06	12/03/16 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Iron	<0.40		0.40	0.20	mg/L		12/02/16 14:06	12/03/16 20:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:06	12/03/16 20:58	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/16 14:06	12/03/16 20:58	1
Silver	<0.025		0.025	0.010	mg/L		12/02/16 14:06	12/03/16 20:58	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/16 14:06	12/03/16 20:58	1

Lab Sample ID: 500-120748-6 MS
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: TCLP
Prep Batch: 363379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.24	J	0.500	0.751		mg/L		102	50 - 150
Beryllium	<0.0040		0.0500	0.0516		mg/L		103	50 - 150
Boron	0.066	J B	1.00	0.972		mg/L		91	50 - 150
Cadmium	<0.0050		0.0500	0.0539		mg/L		108	50 - 150
Chromium	<0.025		0.200	0.194		mg/L		97	50 - 150
Cobalt	<0.025		0.500	0.526		mg/L		105	50 - 150
Iron	<0.40		1.00	1.13		mg/L		113	50 - 150
Lead	<0.0075		0.100	0.0937		mg/L		94	50 - 150
Manganese	<0.025		0.500	0.488		mg/L		98	50 - 150
Nickel	<0.025		0.500	0.509		mg/L		102	50 - 150
Selenium	<0.050		0.100	0.115		mg/L		115	50 - 150

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120748-6 MS
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: TCLP
Prep Batch: 363379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.025		0.0500	0.0570		mg/L		114	50 - 150
Zinc	<0.50		0.500	0.552		mg/L		110	50 - 150

Lab Sample ID: 500-120748-6 DU
Matrix: Solid
Analysis Batch: 363547

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: TCLP
Prep Batch: 363379

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.24	J	0.250	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.066	J B	0.0673	J	mg/L		2	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.025		<0.025		mg/L		NC	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-363174/1-B
Matrix: Solid
Analysis Batch: 363732

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363388

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/16 14:10	12/05/16 20:11	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/16 14:10	12/05/16 20:11	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-363379/2-A
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.440		mg/L		88	80 - 120
Thallium	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: LCS 500-363388/2-A
Matrix: Solid
Analysis Batch: 363753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.436		mg/L		87	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-363172/1-C
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363379

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:06	12/05/16 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/16 14:06	12/05/16 11:18	1

Lab Sample ID: 500-120748-6 MS
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: TCLP
Prep Batch: 363379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.460		mg/L		92	50 - 150
Thallium	<0.0020		0.100	0.0917		mg/L		92	50 - 150

Lab Sample ID: 500-120748-6 DU
Matrix: Solid
Analysis Batch: 363685

Client Sample ID: 1314V3-21-B01 (5-10)
Prep Type: TCLP
Prep Batch: 363379

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-363174/1-B
Matrix: Solid
Analysis Batch: 363753

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363388

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/16 14:10	12/05/16 17:08	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-363342/12-A
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:43	1

Lab Sample ID: LCS 500-363342/13-A
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00180		mg/L		90	80 - 120

Lab Sample ID: LB 500-363172/1-B
Matrix: Solid
Analysis Batch: 363643

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363342

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/16 10:45	12/05/16 11:49	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-362981/12-A
 Matrix: Solid
 Analysis Batch: 363327

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 362981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		11/30/16 14:45	12/02/16 09:10	1

Lab Sample ID: LCS 500-362981/13-A
 Matrix: Solid
 Analysis Batch: 363327

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 362981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.165		mg/Kg		99	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-120748-1 DU
 Matrix: Solid
 Analysis Batch: 363480

Client Sample ID: 1314V3-74-B01 (0-2)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.0		9.0		SU		0.2	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 21:55	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:24	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:20	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363480		JB	TAL CHI
					(Start)	12/02/16 17:07		
					(End)	12/02/16 17:14		
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

Client Sample ID: 1314V3-74-B01 (0-2)

Lab Sample ID: 500-120748-1

Date Collected: 11/29/16 09:55

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 19:55	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 12:48	AJD	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/02/16 22:06	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		1	363546	12/03/16 21:26	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:28	MJD	TAL CHI

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 22:02	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:29	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:23	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363480	(Start) 12/02/16 17:21 (End) 12/02/16 17:29	JB	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

Client Sample ID: 1314V3-75-B01 (0-2)

Lab Sample ID: 500-120748-2

Date Collected: 11/29/16 10:05

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 20:20	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 13:16	AJD	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		1	363473	12/02/16 22:40	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		1	363546	12/03/16 21:48	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:29	MJD	TAL CHI

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 22:09	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:34	PJ1	TAL CHI
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6020A		1	363753	12/05/16 17:22	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:27	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363480		JBJ	TAL CHI
					(Start)	12/02/16 17:29		
					(End)	12/02/16 17:36		
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

Client Sample ID: 1314V3-21-B02 (0-6)

Lab Sample ID: 500-120748-3

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 20:45	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 14:12	AJD	TAL CHI
Total/NA	Prep	3541			363872	12/06/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8082A		1	363948	12/07/16 13:00	BJH	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363473	12/02/16 23:03	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363546	12/03/16 21:53	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:31	MJD	TAL CHI

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 22:31	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:39	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:30	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:20	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	363480	12/02/16 17:36 (Start) 12/02/16 17:43 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

Client Sample ID: 1314V3-21-B02 (0-6)D

Lab Sample ID: 500-120748-4

Date Collected: 11/29/16 11:45

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 21:09	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 14:40	AJD	TAL CHI
Total/NA	Prep	3541			363872	12/06/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8082A		1	363948	12/07/16 13:15	BJH	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363473	12/02/16 23:10	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363546	12/03/16 21:57	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:32	MJD	TAL CHI

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363174	12/01/16 13:05	RMP	TAL CHI
SPLP East	Prep	3010A			363388	12/02/16 14:10	JNH	TAL CHI
SPLP East	Analysis	6010B		1	363732	12/05/16 22:38	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:43	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:41	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363480	12/02/16 17:43 (Start) 12/02/16 17:50 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (0-5)

Lab Sample ID: 500-120748-5

Date Collected: 11/29/16 12:20

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 21:34	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 13:44	AJD	TAL CHI
Total/NA	Prep	3541			363872	12/06/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8082A		1	363948	12/07/16 13:31	BJH	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363473	12/02/16 23:16	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		5	363546	12/03/16 22:08	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:34	MJD	TAL CHI

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6010B		1	363547	12/03/16 22:48	PJ1	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	3010A			363379	12/02/16 14:06	JNH	TAL CHI
TCLP	Analysis	6020A		1	363685	12/05/16 12:44	FXG	TAL CHI
TCLP	Leach	1311			363172	12/01/16 13:05	RMP	TAL CHI
TCLP	Prep	7470A			363342	12/02/16 10:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363643	12/05/16 12:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363480		JB	TAL CHI
					(Start)	12/02/16 17:50		
					(End)	12/02/16 17:57		
Total/NA	Analysis	Moisture		1	362966	11/30/16 13:50	LWN	TAL CHI

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363131	11/30/16 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363336	12/02/16 21:58	BDW	TAL CHI
Total/NA	Prep	3541			363857	12/06/16 16:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	363926	12/07/16 11:24	AJD	TAL CHI
Total/NA	Prep	3541			363872	12/06/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8082A		1	363948	12/07/16 10:43	BJH	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Client Sample ID: 1314V3-21-B01 (5-10)

Lab Sample ID: 500-120748-6

Date Collected: 11/29/16 12:25

Matrix: Solid

Date Received: 11/30/16 10:20

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	363473	12/02/16 23:23	KML	TAL CHI
Total/NA	Prep	3050B			363316	12/02/16 09:27	JEF	TAL CHI
Total/NA	Analysis	6010B		1	363546	12/03/16 22:12	PJ1	TAL CHI
Total/NA	Prep	7471B			362981	11/30/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363327	12/02/16 09:35	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120748-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.



500-120748 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120748
Chain of Custody Number: EE16-04
Page _____ of _____
Temperature °C of Cooler: 39.30

Client <u>EE</u>		Client Project # <u>1009008.0046-01</u>		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name <u>I74</u>		Project Location/State <u>Rock Island County, IL</u>		Lab Project #		VOC	SVOC	Total TAC	Mobile	Turbidity		TAC Mobile	pH/6 Slid.
Sampler <u>S-Coop</u>		Lab PM		Sampling									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments	
<u>1</u>		<u>1314V3-74-R01 (0-2)</u>	<u>11-29-16</u>	<u>0955</u>	<u>25</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>6YE26</u>
<i>[Large handwritten signature and scribble]</i>													

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>EE</u>	Date <u>11-29-16</u>	Time <u>11:55</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>11/30/16</u>	Time <u>1020</u>
Relinquished By <u>[Signature]</u>	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
Shipped FedEx
Hand Delivered _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120748
 Chain of Custody Number: EE46-05
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
EE		1009008-0040-01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #															
I 74		500/2744															
Project Location/State		Lab PM															
Rock Island County, IL		D - weight															
Sampler																	
S - (copy)																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Voc	Svoc	Total HAP Metals	Total P/P Metals	P/P % Solids						Comments
			Date	Time													
2		1314V3-75-B01(0-2)	11/24/16	1005	2	S	X	X	X	X	X						

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	EE	11/29/16	1715	<i>[Signature]</i>	DA-CRT	11/30/16	1020
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

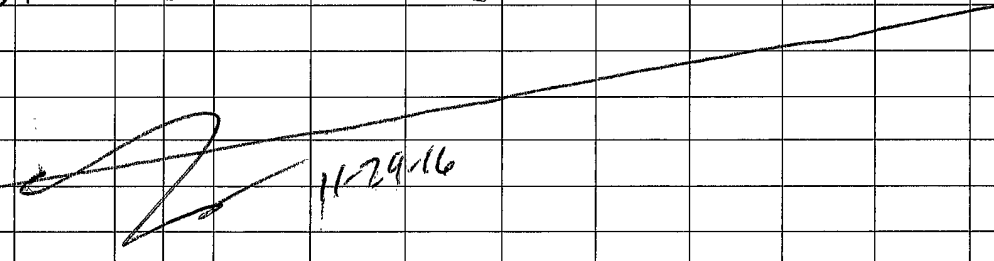
Chain of Custody Record

Lab Job #: 500-120748

Chain of Custody Number: EG46-06


Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments				
EE		1009006704601								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Lab Project #												
ITM		S0012744												
Project Location/State		Lab Project #												
Rock Island County		S0012744												
Sampler		Lab PM												
S. Cooper		D. Wright												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	Soc	Total TAC	Total Metals	Total TAC/SR	TAC matrix	pH / % Solids	Comments
			Date	Time										
3		1314V3-21-B02(0-4)	11-24-16	1145	2	S	X	X	X	X	X			64C08
4		1314V3-21-B02(0-6)D	11-24-16	1145	2	S	X	X	X	X	X			
5		1314V3-21-B01(0-5)	11-24-16	1220	2	S	X	X	X	X	X			
6		1314V3-21-B01(570)	11-24-16	1225	2	J	X	X	X	X	X			
														

Turnaround Time Required (Business Days) _____
 _____ 1 Day _____ 2 Days _____ 5 Days _____ 7 Days _____ 10 Days _____ 15 Days _____ Other _____
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Lab Courier
	EE	11-24-16	1705	Sherrin Scott	TA-CENT	11/30/16	1020	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
								FedEx
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-120748-1

Login Number: 120748

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-120748-1

Login Number: 120748

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-120882-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/16/2016 3:58:48 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Job ID: 500-120882-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-120882-1**

Comments

No additional comments.

Receipt

The samples were received on 12/2/2016 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.3° C.

GC/MS VOA

Method(s) 8260B: The method blank for preparation batch 363745 contained 2-Hexanone above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-120882-E-2-I MS) and (500-120882-E-2-J MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: The internal standard (Tb) was used to report the element Thallium in batch 500-364154. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0085	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J F1	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0	F1	0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	73	F1	0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0	F1	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	F1	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	F2	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3	F1	0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	17	F1	0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14	F1	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600	F2	5.5	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11	B F1	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	870	F1	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.77		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	33	F1	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.040	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.023	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0098	J	0.074	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0060	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.016	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.034	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.22		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.20		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3) (Continued)

Lab Sample ID: 500-120882-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chrysene	0.11		0.037	0.010	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.037	0.0080	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.075		0.037	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]pyrene	0.16		0.037	0.0071	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.082		0.037	0.0096	mg/Kg	1	*	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.037	0.0071	mg/Kg	1	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.074		0.037	0.012	mg/Kg	1	*	*	8270D	Total/NA
Antimony	0.45	J	0.99	0.21	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	3.9		0.49	0.23	mg/Kg	1	*	*	6010B	Total/NA
Barium	68		0.49	0.090	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.43		0.20	0.043	mg/Kg	1	*	*	6010B	Total/NA
Boron	2.6		2.5	0.35	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.25		0.099	0.029	mg/Kg	1	*	*	6010B	Total/NA
Calcium	14000		9.9	3.2	mg/Kg	1	*	*	6010B	Total/NA
Chromium	11	B	0.49	0.085	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	5.3		0.25	0.056	mg/Kg	1	*	*	6010B	Total/NA
Copper	12		0.49	0.11	mg/Kg	1	*	*	6010B	Total/NA
Iron	12000		9.9	3.8	mg/Kg	1	*	*	6010B	Total/NA
Lead	52		0.25	0.12	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	7800		4.9	2.0	mg/Kg	1	*	*	6010B	Total/NA
Manganese	370		0.49	0.098	mg/Kg	1	*	*	6010B	Total/NA
Nickel	12	B	0.49	0.13	mg/Kg	1	*	*	6010B	Total/NA
Potassium	750		25	4.0	mg/Kg	1	*	*	6010B	Total/NA
Sodium	420		49	6.5	mg/Kg	1	*	*	6010B	Total/NA
Thallium	0.72		0.49	0.24	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	18		0.25	0.072	mg/Kg	1	*	*	6010B	Total/NA
Zinc	47		0.99	0.31	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	0.60		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.061	J B	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.11		0.018	0.0093	mg/Kg	1	*	*	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	0.012	J	0.039	0.0071	mg/Kg	1	*	*	8270D	Total/NA
Fluorene	0.014	J	0.039	0.0056	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.26		0.039	0.0055	mg/Kg	1	*	*	8270D	Total/NA
Anthracene	0.036	J	0.039	0.0066	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.43		0.039	0.0073	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.36		0.039	0.0078	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.21		0.039	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.039	0.0085	mg/Kg	1	*	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3) (Continued)

Lab Sample ID: 500-120882-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.12		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.094		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.078		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	5.1		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.50		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	66		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	13	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.075	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.19		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	80		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.20	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7		2.5	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.098	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	3300		9.8	3.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	8.6		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	6.7		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	11	B	0.49	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B03 (0-3) (Continued)

Lab Sample ID: 500-120882-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	800		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.95		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.092	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.017	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.010	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.026	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	0.96	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	5200		9.6	3.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	850		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.82		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	28		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.079	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.029	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.056		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.013	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.082		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.048		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.071		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.052		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.6	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	5200		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	9.7		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.72		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	26		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.31	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.23	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3) (Continued)

Lab Sample ID: 500-120882-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.4		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	9.3		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	7.6		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	620		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	16	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	680		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	670		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.34	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0056	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0075	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0090	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.5		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.51	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	7400		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	15	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	780		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (0-5) (Continued)

Lab Sample ID: 500-120882-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	36		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.27	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	3.1		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	9.4		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	6.1		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	190		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.8	B	0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	870		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.6		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57		0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	26		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.025	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.026	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.035	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.052		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3) (Continued)

Lab Sample ID: 500-120882-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.047		0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.3		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	7400		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.3		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.67		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.071	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.027	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	2.0		0.94	0.49	mg/Kg	50	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.040	J	0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0089	J	0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.086		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.072		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.046		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.041	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.49		0.21	0.076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.063		0.042	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0	J	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3) (Continued)

Lab Sample ID: 500-120882-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.24		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	3700		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.90		0.62	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.078	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.39	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.028	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.067		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0078	J	0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.084	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.043		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0070	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.071		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.069		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.040	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.045		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.091		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	7.2		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	7700		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B01 (0-8) (Continued)

Lab Sample ID: 500-120882-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.70		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.058		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.25	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.5		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	6000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	9.3		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	7.0		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3200		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	880		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.26	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Mercury	0.013	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.012	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0088	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	39000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	14	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	9.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0096	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.010	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	3.9		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	40000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6) (Continued)

Lab Sample ID: 500-120882-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	6.6		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	6.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.94		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	28		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.053	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0087	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0098	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	0.90	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.45	0.082	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0		2.2	0.31	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.090	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		9.0	2.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.45	0.077	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.45	0.097	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	13	B	0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		22	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		45	5.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.93		0.45	0.22	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B20 (0-6) (Continued)

Lab Sample ID: 500-120882-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vanadium	18		0.22	0.065	mg/Kg	1		☼	6010B	Total/NA
Zinc	39		0.90	0.28	mg/Kg	1		☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1			6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1			6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.015	J	0.016	0.0086	mg/Kg	1		☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-120882-1	1314V3-57-B03 (0-5)	Solid	12/01/16 09:25	12/02/16 10:10
500-120882-2	1314V3-57-B02 (0-3)	Solid	12/01/16 09:55	12/02/16 10:10
500-120882-3	1314V3-57-B01 (0-3)	Solid	12/01/16 10:15	12/02/16 10:10
500-120882-4	1314V3-56-B03 (0-3)	Solid	12/01/16 10:35	12/02/16 10:10
500-120882-5	1314V3-56-B02 (0-3)	Solid	12/01/16 10:50	12/02/16 10:10
500-120882-6	1314V3-56-B02 (0-3)D	Solid	12/01/16 10:50	12/02/16 10:10
500-120882-7	1314V3-56-B01 (0-3)	Solid	12/01/16 11:05	12/02/16 10:10
500-120882-8	1314V3-59-B01 (0-5)	Solid	12/01/16 11:30	12/02/16 10:10
500-120882-9	1314V3-59-B01 (5-10)	Solid	12/01/16 11:35	12/02/16 10:10
500-120882-10	1314V3-32-B08 (0-3)	Solid	12/01/16 12:05	12/02/16 10:10
500-120882-11	1314V3-32-B07 (0-3)	Solid	12/01/16 12:20	12/02/16 10:10
500-120882-12	1314V3-26-B01 (0-8)	Solid	12/01/16 14:05	12/02/16 10:10
500-120882-13	1314V3-26-B02 (0-8)	Solid	12/01/16 14:40	12/02/16 10:10
500-120882-14	1314V3-01-B30 (0-6)	Solid	12/01/16 16:10	12/02/16 10:10
500-120882-15	1314V3-01-B31 (0-6)	Solid	12/01/16 16:20	12/02/16 10:10
500-120882-16	1314V3-01-B20 (0-6)	Solid	12/01/16 16:45	12/02/16 10:10

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/02/16 16:10	12/06/16 13:39	1
Dibromofluoromethane	100		75 - 120	12/02/16 16:10	12/06/16 13:39	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/02/16 16:10	12/06/16 13:39	1
Toluene-d8 (Surr)	100		75 - 123	12/02/16 16:10	12/06/16 13:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Phenanthrene	0.0085	J	0.038	0.0053	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Fluoranthene	0.021	J	0.038	0.0070	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Pyrene	0.020	J	0.038	0.0075	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Benzo[a]anthracene	0.012	J	0.038	0.0051	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.038	0.010	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0098	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/13/16 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		40 - 130	12/10/16 09:29	12/13/16 23:58	1
Phenol-d5	103		36 - 123	12/10/16 09:29	12/13/16 23:58	1
Nitrobenzene-d5	87		33 - 124	12/10/16 09:29	12/13/16 23:58	1
2-Fluorobiphenyl	82		42 - 115	12/10/16 09:29	12/13/16 23:58	1
2,4,6-Tribromophenol	60		25 - 130	12/10/16 09:29	12/13/16 23:58	1
Terphenyl-d14	96		25 - 150	12/10/16 09:29	12/13/16 23:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J F1	1.1	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Arsenic	5.0	F1	0.55	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Barium	73	F1	0.55	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Beryllium	0.45		0.22	0.048	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Boron	3.0	F1	2.8	0.39	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Cadmium	0.22	F1	0.11	0.032	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Calcium	11000	F2	11	3.6	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Chromium	12	B	0.55	0.095	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Cobalt	5.3	F1	0.28	0.063	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Copper	17	F1	0.55	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Iron	12000		11	4.3	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Lead	14	F1	0.28	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Magnesium	6600	F2	5.5	2.3	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Manganese	360		0.55	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Nickel	11	B F1	0.55	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Potassium	870	F1	28	4.5	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Selenium	<0.55	F1	0.55	0.27	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Sodium	780		55	7.3	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Thallium	0.77		0.55	0.27	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Vanadium	20		0.28	0.081	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1
Zinc	33	F1	1.1	0.35	mg/Kg	☼	12/07/16 08:30	12/07/16 16:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:18	1
Boron	0.072	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 86.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Iron	<0.40		0.40	0.20	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Manganese	1.9		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Nickel	0.030		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Silver	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:18	1
Zinc	0.040	J B	0.50	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.70		0.025	0.010	mg/L	-	12/06/16 14:13	12/07/16 19:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/06/16 14:16	12/07/16 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/06/16 14:16	12/07/16 19:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/06/16 13:45	12/07/16 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU	-		12/06/16 14:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Vinyl acetate	<0.0045		0.0045	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/02/16 16:10	12/06/16 14:04	1
Dibromofluoromethane	96		75 - 120	12/02/16 16:10	12/06/16 14:04	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/02/16 16:10	12/06/16 14:04	1
Toluene-d8 (Surr)	102		75 - 123	12/02/16 16:10	12/06/16 14:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19	F1	0.19	0.082	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Naphthalene	0.023	J	0.037	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Hexachlorocyclopentadiene	<0.74	F1	0.74	0.21	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Methylnaphthalene	0.0098	J	0.074	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Acenaphthylene	0.0060	J	0.037	0.0049	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Acenaphthene	0.016	J	0.037	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Fluorene	0.014	J	0.037	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Nitroaniline	<0.37	F1	0.37	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Pentachlorophenol	<0.74	F1	0.74	0.59	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Phenanthrene	0.14		0.037	0.0051	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Anthracene	0.034	J	0.037	0.0062	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Fluoranthene	0.22		0.037	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Pyrene	0.20		0.037	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Benzo[a]anthracene	0.12		0.037	0.0050	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.037	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Benzo[b]fluoranthene	0.17		0.037	0.0080	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Benzo[k]fluoranthene	0.075		0.037	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Benzo[a]pyrene	0.16		0.037	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Indeno[1,2,3-cd]pyrene	0.082		0.037	0.0096	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Dibenz(a,h)anthracene	0.026	J	0.037	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
Benzo[g,h,i]perylene	0.074		0.037	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	114		40 - 130	12/10/16 09:29	12/14/16 00:23	1
Phenol-d5	118		36 - 123	12/10/16 09:29	12/14/16 00:23	1
Nitrobenzene-d5	92		33 - 124	12/10/16 09:29	12/14/16 00:23	1
2-Fluorobiphenyl	91		42 - 115	12/10/16 09:29	12/14/16 00:23	1
2,4,6-Tribromophenol	67		25 - 130	12/10/16 09:29	12/14/16 00:23	1
Terphenyl-d14	108		25 - 150	12/10/16 09:29	12/14/16 00:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	0.99	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Arsenic	3.9		0.49	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Barium	68		0.49	0.090	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Beryllium	0.43		0.20	0.043	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Boron	2.6		2.5	0.35	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Cadmium	0.25		0.099	0.029	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Calcium	14000		9.9	3.2	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Chromium	11	B	0.49	0.085	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Cobalt	5.3		0.25	0.056	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Copper	12		0.49	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Iron	12000		9.9	3.8	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Lead	52		0.25	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Magnesium	7800		4.9	2.0	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Manganese	370		0.49	0.098	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Nickel	12	B	0.49	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Potassium	750		25	4.0	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Sodium	420		49	6.5	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Thallium	0.72		0.49	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Vanadium	18		0.25	0.072	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1
Zinc	47		0.99	0.31	mg/Kg	☼	12/07/16 08:30	12/07/16 16:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:22	1
Boron	0.064	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Iron	<0.40		0.40	0.20	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Lead	0.011		0.0075	0.0075	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Manganese	0.60		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Silver	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:22	1
Zinc	0.061	J B	0.50	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:22	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L	-	12/06/16 14:13	12/07/16 19:55	1
Manganese	0.21		0.025	0.010	mg/L	-	12/06/16 14:13	12/07/16 19:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/06/16 14:16	12/07/16 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/06/16 14:16	12/07/16 19:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/06/16 13:45	12/07/16 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0093	mg/Kg	☼	12/05/16 14:30	12/06/16 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/06/16 14:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/02/16 16:10	12/06/16 14:29	1
Dibromofluoromethane	100		75 - 120	12/02/16 16:10	12/06/16 14:29	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/02/16 16:10	12/06/16 14:29	1
Toluene-d8 (Surr)	102		75 - 123	12/02/16 16:10	12/06/16 14:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Acenaphthene	0.012	J	0.039	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Fluorene	0.014	J	0.039	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Phenanthrene	0.26		0.039	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Anthracene	0.036	J	0.039	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Fluoranthene	0.43		0.039	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Pyrene	0.36		0.039	0.0078	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.21		0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Benzo[b]fluoranthene	0.33		0.039	0.0085	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Benzo[k]fluoranthene	0.12		0.039	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Indeno[1,2,3-cd]pyrene	0.094		0.039	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Dibenz(a,h)anthracene	0.034	J	0.039	0.0076	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
Benzo[g,h,i]perylene	0.078		0.039	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/10/16 09:29	12/14/16 02:06	1
Phenol-d5	81		36 - 123	12/10/16 09:29	12/14/16 02:06	1
Nitrobenzene-d5	76		33 - 124	12/10/16 09:29	12/14/16 02:06	1
2-Fluorobiphenyl	72		42 - 115	12/10/16 09:29	12/14/16 02:06	1
2,4,6-Tribromophenol	31		25 - 130	12/10/16 09:29	12/14/16 02:06	1
Terphenyl-d14	88		25 - 150	12/10/16 09:29	12/14/16 02:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Arsenic	3.7		0.60	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Barium	91		0.60	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Beryllium	0.60		0.24	0.052	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Boron	5.1		3.0	0.42	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Cadmium	0.50		0.12	0.035	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Calcium	7200		12	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Chromium	14	B	0.60	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Cobalt	5.5		0.30	0.068	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Copper	15		0.60	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Iron	14000		12	4.6	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Lead	66		0.30	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Magnesium	2600		6.0	2.4	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Manganese	330		0.60	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Nickel	13	B	0.60	0.16	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Potassium	910		30	4.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Selenium	0.38	J	0.60	0.30	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Sodium	210		60	7.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Thallium	0.78		0.60	0.29	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Vanadium	17		0.30	0.087	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1
Zinc	85		1.2	0.38	mg/Kg	☼	12/07/16 08:30	12/07/16 17:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:27	1
Boron	0.11	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Iron	<0.40		0.40	0.20	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Manganese	0.14		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Silver	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 14:27	1
Zinc	0.075	J B	0.50	0.020	mg/L	-	12/06/16 14:16	12/07/16 14:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/06/16 14:16	12/07/16 19:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/06/16 14:16	12/07/16 19:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/06/16 13:45	12/07/16 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.018	0.0096	mg/Kg	☼	12/05/16 14:30	12/06/16 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		12/06/16 14:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/02/16 16:10	12/06/16 14:54	1
Dibromofluoromethane	99		75 - 120	12/02/16 16:10	12/06/16 14:54	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/02/16 16:10	12/06/16 14:54	1
Toluene-d8 (Surr)	101		75 - 123	12/02/16 16:10	12/06/16 14:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/10/16 09:29	12/14/16 02:31	1
Phenol-d5	99		36 - 123	12/10/16 09:29	12/14/16 02:31	1
Nitrobenzene-d5	94		33 - 124	12/10/16 09:29	12/14/16 02:31	1
2-Fluorobiphenyl	80		42 - 115	12/10/16 09:29	12/14/16 02:31	1
2,4,6-Tribromophenol	64		25 - 130	12/10/16 09:29	12/14/16 02:31	1
Terphenyl-d14	105		25 - 150	12/10/16 09:29	12/14/16 02:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Arsenic	4.1		0.49	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Barium	80		0.49	0.090	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Beryllium	0.47		0.20	0.042	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Boron	2.7		2.5	0.34	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Cadmium	0.12		0.098	0.028	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Calcium	3300		9.8	3.2	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Chromium	12 B		0.49	0.084	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Cobalt	5.6		0.25	0.055	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Copper	8.6		0.49	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Iron	12000		9.8	3.8	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Lead	6.7		0.25	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Magnesium	1600		4.9	2.0	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Manganese	500		0.49	0.097	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Nickel	11 B		0.49	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Potassium	800		25	4.0	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Silver	<0.25		0.25	0.057	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Sodium	260		49	6.5	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Thallium	0.95		0.49	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Vanadium	19		0.25	0.072	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1
Zinc	24		0.98	0.31	mg/Kg	☼	12/07/16 08:30	12/07/16 17:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:32	1
Boron	0.092	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:32	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:32	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:32	1
Iron	0.21	J	0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:32	1
Manganese	1.7		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:32	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:32	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:32	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.020	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/06/16 15:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/02/16 16:10	12/06/16 15:19	1
Dibromofluoromethane	98		75 - 120	12/02/16 16:10	12/06/16 15:19	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/02/16 16:10	12/06/16 15:19	1
Toluene-d8 (Surr)	101		75 - 123	12/02/16 16:10	12/06/16 15:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Fluoranthene	0.017	J	0.039	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Pyrene	0.016	J	0.039	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Benzo[a]anthracene	0.010	J	0.039	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Benzo[b]fluoranthene	0.026	J	0.039	0.0085	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Benzo[a]pyrene	0.013	J	0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		40 - 130	12/10/16 09:29	12/14/16 02:57	1
Phenol-d5	86		36 - 123	12/10/16 09:29	12/14/16 02:57	1
Nitrobenzene-d5	78		33 - 124	12/10/16 09:29	12/14/16 02:57	1
2-Fluorobiphenyl	75		42 - 115	12/10/16 09:29	12/14/16 02:57	1
2,4,6-Tribromophenol	55		25 - 130	12/10/16 09:29	12/14/16 02:57	1
Terphenyl-d14	88		25 - 150	12/10/16 09:29	12/14/16 02:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	0.96	0.20	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Arsenic	5.1		0.48	0.22	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Barium	63		0.48	0.088	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Beryllium	0.49		0.19	0.042	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Boron	2.7		2.4	0.34	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Cadmium	0.17		0.096	0.028	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Calcium	5200		9.6	3.1	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Chromium	13	B	0.48	0.083	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Cobalt	6.1		0.24	0.054	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Copper	10		0.48	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Iron	14000		9.6	3.7	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Lead	9.4		0.24	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Magnesium	2600		4.8	1.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Manganese	400		0.48	0.095	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Nickel	12	B	0.48	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Potassium	850		24	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Sodium	1300		48	6.3	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Thallium	0.82		0.48	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Vanadium	21		0.24	0.070	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1
Zinc	28		0.96	0.30	mg/Kg	☼	12/07/16 08:30	12/07/16 17:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:37	1
Boron	0.079	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:37	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:37	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:37	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:37	1
Manganese	0.29		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:37	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:37	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:37	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:37	1
Zinc	0.029	J B	0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.81		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0093	mg/Kg	☼	12/05/16 14:30	12/06/16 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/06/16 15:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/02/16 16:10	12/06/16 15:44	1
Dibromofluoromethane	100		75 - 120	12/02/16 16:10	12/06/16 15:44	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/02/16 16:10	12/06/16 15:44	1
Toluene-d8 (Surr)	102		75 - 123	12/02/16 16:10	12/06/16 15:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Phenanthrene	0.056		0.039	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Anthracene	0.013 J		0.039	0.0065	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Fluoranthene	0.11		0.039	0.0072	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Pyrene	0.082		0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Benzo[a]anthracene	0.048		0.039	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Benzo[b]fluoranthene	0.071		0.039	0.0084	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Benzo[k]fluoranthene	0.027 J		0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Benzo[a]pyrene	0.052		0.039	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Indeno[1,2,3-cd]pyrene	0.026 J		0.039	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Benzo[g,h,i]perylene	0.020 J		0.039	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		40 - 130				12/10/16 09:29	12/14/16 03:23	1
Phenol-d5	104		36 - 123				12/10/16 09:29	12/14/16 03:23	1
Nitrobenzene-d5	96		33 - 124				12/10/16 09:29	12/14/16 03:23	1
2-Fluorobiphenyl	82		42 - 115				12/10/16 09:29	12/14/16 03:23	1
2,4,6-Tribromophenol	40		25 - 130				12/10/16 09:29	12/14/16 03:23	1
Terphenyl-d14	100		25 - 150				12/10/16 09:29	12/14/16 03:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25 J		1.1	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Arsenic	4.6		0.56	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Barium	62		0.56	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Beryllium	0.48		0.23	0.049	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Boron	2.6 J		2.8	0.39	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Cadmium	0.11		0.11	0.033	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Calcium	5200		11	3.6	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Chromium	12 B		0.56	0.097	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Cobalt	5.3		0.28	0.064	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Copper	9.7		0.56	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Iron	13000		11	4.3	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Lead	9.8		0.28	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Magnesium	2700		5.6	2.3	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Manganese	370		0.56	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Nickel	12 B		0.56	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Potassium	800		28	4.6	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Sodium	1300		56	7.4	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Thallium	0.72		0.56	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Vanadium	20		0.28	0.082	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1
Zinc	26		1.1	0.36	mg/Kg	☼	12/07/16 08:30	12/07/16 17:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:42	1
Boron	0.075 J		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:42	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:42	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:42	1
Iron	0.31	J	0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:42	1
Manganese	0.25		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:42	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:42	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:42	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:42	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0094	mg/Kg	☼	12/05/16 14:30	12/06/16 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.1		0.2	0.2	SU			12/06/16 15:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	12/02/16 16:10	12/06/16 16:08	1
Dibromofluoromethane	102		75 - 120	12/02/16 16:10	12/06/16 16:08	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/02/16 16:10	12/06/16 16:08	1
Toluene-d8 (Surr)	99		75 - 123	12/02/16 16:10	12/06/16 16:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111		40 - 130	12/10/16 09:29	12/14/16 03:48	1
Phenol-d5	115		36 - 123	12/10/16 09:29	12/14/16 03:48	1
Nitrobenzene-d5	101		33 - 124	12/10/16 09:29	12/14/16 03:48	1
2-Fluorobiphenyl	89		42 - 115	12/10/16 09:29	12/14/16 03:48	1
2,4,6-Tribromophenol	70		25 - 130	12/10/16 09:29	12/14/16 03:48	1
Terphenyl-d14	104		25 - 150	12/10/16 09:29	12/14/16 03:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.0	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Arsenic	4.4		0.51	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Barium	69		0.51	0.093	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Beryllium	0.47		0.20	0.044	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Boron	1.7	J	2.5	0.35	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Cadmium	0.17		0.10	0.029	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Calcium	2300		10	3.3	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Chromium	12	B	0.51	0.087	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Cobalt	5.4		0.25	0.057	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Copper	9.3		0.51	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Iron	13000		10	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Lead	7.6		0.25	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Magnesium	1500		5.1	2.1	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Manganese	620		0.51	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Nickel	16	B	0.51	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Potassium	680		25	4.1	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Selenium	0.26	J	0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Sodium	670		51	6.7	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Thallium	1.1		0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Vanadium	21		0.25	0.074	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1
Zinc	25		1.0	0.32	mg/Kg	☼	12/07/16 08:30	12/07/16 17:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:46	1
Boron	0.051	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:46	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:46	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:46	1
Iron	0.34	J	0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:46	1
Manganese	0.21		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:46	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:46	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:46	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:46	1
Zinc	0.022	J B	0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0093	mg/Kg	☼	12/05/16 14:30	12/06/16 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/06/16 15:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/02/16 16:10	12/07/16 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	12/02/16 16:10	12/07/16 11:59	1
Dibromofluoromethane	98		75 - 120	12/02/16 16:10	12/07/16 11:59	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/02/16 16:10	12/07/16 11:59	1
Toluene-d8 (Surr)	103		75 - 123	12/02/16 16:10	12/07/16 11:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Phenanthrene	0.0056	J	0.039	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Fluoranthene	0.014	J	0.039	0.0074	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Pyrene	0.011	J	0.039	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Benzo[a]anthracene	0.0075	J	0.039	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Benzo[b]fluoranthene	0.016	J	0.039	0.0086	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Benzo[a]pyrene	0.0090	J	0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		40 - 130	12/10/16 09:29	12/14/16 04:14	1
Phenol-d5	99		36 - 123	12/10/16 09:29	12/14/16 04:14	1
Nitrobenzene-d5	103		33 - 124	12/10/16 09:29	12/14/16 04:14	1
2-Fluorobiphenyl	92		42 - 115	12/10/16 09:29	12/14/16 04:14	1
2,4,6-Tribromophenol	67		25 - 130	12/10/16 09:29	12/14/16 04:14	1
Terphenyl-d14	103		25 - 150	12/10/16 09:29	12/14/16 04:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.0	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Arsenic	6.5		0.51	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Barium	67		0.51	0.092	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Beryllium	0.49		0.20	0.044	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Boron	2.7		2.5	0.35	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Cadmium	0.29		0.10	0.029	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Calcium	7400		10	3.3	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Chromium	14	B	0.51	0.087	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Cobalt	6.8		0.25	0.057	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Copper	11		0.51	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Iron	14000		10	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Lead	14		0.25	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Magnesium	4900		5.1	2.1	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Manganese	460		0.51	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Nickel	15	B	0.51	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Potassium	780		25	4.1	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Sodium	180		51	6.7	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Thallium	1.0		0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Vanadium	27		0.25	0.074	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1
Zinc	36		1.0	0.32	mg/Kg	☼	12/07/16 08:30	12/07/16 17:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:51	1
Boron	0.063	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 80.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:51	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:51	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:51	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:51	1
Manganese	0.35		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:51	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:51	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:51	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:51	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.23		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0098	mg/Kg	☼	12/05/16 14:30	12/06/16 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/06/16 15:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 77.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/02/16 16:10	12/06/16 16:58	1
Dibromofluoromethane	97		75 - 120	12/02/16 16:10	12/06/16 16:58	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/02/16 16:10	12/06/16 16:58	1
Toluene-d8 (Surr)	99		75 - 123	12/02/16 16:10	12/06/16 16:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.32	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		40 - 130	12/10/16 09:29	12/14/16 04:40	1
Phenol-d5	82		36 - 123	12/10/16 09:29	12/14/16 04:40	1
Nitrobenzene-d5	79		33 - 124	12/10/16 09:29	12/14/16 04:40	1
2-Fluorobiphenyl	67		42 - 115	12/10/16 09:29	12/14/16 04:40	1
2,4,6-Tribromophenol	55		25 - 130	12/10/16 09:29	12/14/16 04:40	1
Terphenyl-d14	84		25 - 150	12/10/16 09:29	12/14/16 04:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.0	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Arsenic	4.4		0.52	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Barium	48		0.52	0.095	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Beryllium	0.45		0.21	0.045	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Boron	3.1		2.6	0.36	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Cadmium	0.22		0.10	0.030	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Calcium	23000		10	3.3	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Chromium	12	B	0.52	0.089	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Cobalt	5.6		0.26	0.058	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Copper	9.4		0.52	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Iron	14000		10	4.0	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Lead	6.1		0.26	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Magnesium	15000		5.2	2.1	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Manganese	190		0.52	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Nickel	9.8	B	0.52	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Potassium	870		26	4.2	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Selenium	1.6		0.52	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Sodium	180		52	6.8	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Thallium	0.57		0.52	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Vanadium	21		0.26	0.075	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1
Zinc	26		1.0	0.33	mg/Kg	☼	12/07/16 08:30	12/07/16 18:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 14:56	1
Boron	0.075	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 14:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 77.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 14:56	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:56	1
Cobalt	0.035		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:56	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 14:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 14:56	1
Manganese	2.4		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:56	1
Nickel	0.034		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:56	1
Selenium	0.025 J		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 14:56	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 14:56	1
Zinc	0.026 J B		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 14:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 20:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			12/06/16 15:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Chloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	12/02/16 16:10	12/06/16 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/02/16 16:10	12/06/16 17:23	1
Dibromofluoromethane	101		75 - 120	12/02/16 16:10	12/06/16 17:23	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/02/16 16:10	12/06/16 17:23	1
Toluene-d8 (Surr)	102		75 - 123	12/02/16 16:10	12/06/16 17:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Phenanthrene	0.035	J	0.041	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Fluoranthene	0.052		0.041	0.0076	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Pyrene	0.045		0.041	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Benzo[a]anthracene	0.028	J	0.041	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.041	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Benzo[b]fluoranthene	0.047		0.041	0.0088	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Benzo[k]fluoranthene	0.018	J	0.041	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Benzo[a]pyrene	0.032	J	0.041	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.041	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		40 - 130	12/10/16 09:29	12/14/16 05:05	1
Phenol-d5	114		36 - 123	12/10/16 09:29	12/14/16 05:05	1
Nitrobenzene-d5	103		33 - 124	12/10/16 09:29	12/14/16 05:05	1
2-Fluorobiphenyl	94		42 - 115	12/10/16 09:29	12/14/16 05:05	1
2,4,6-Tribromophenol	68		25 - 130	12/10/16 09:29	12/14/16 05:05	1
Terphenyl-d14	108		25 - 150	12/10/16 09:29	12/14/16 05:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.22	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Arsenic	3.1		0.54	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Barium	83		0.54	0.098	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Beryllium	0.54		0.21	0.046	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Boron	3.3		2.7	0.37	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Cadmium	0.18		0.11	0.031	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Calcium	7400		11	3.5	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Chromium	13	B	0.54	0.092	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Cobalt	4.3		0.27	0.061	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Copper	11		0.54	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Iron	12000		11	4.1	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Lead	18		0.27	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Magnesium	2100		5.4	2.2	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Manganese	250		0.54	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Nickel	11	B	0.54	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Potassium	830		27	4.4	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Sodium	520		54	7.1	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Thallium	0.67		0.54	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Vanadium	19		0.27	0.078	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1
Zinc	42		1.1	0.34	mg/Kg	☼	12/07/16 08:30	12/07/16 18:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:01	1
Boron	0.071	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 15:01	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:01	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:01	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 15:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 15:01	1
Manganese	0.14		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:01	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:01	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 15:01	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:01	1
Zinc	0.027	J B	0.50	0.020	mg/L		12/06/16 14:16	12/07/16 15:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.94	0.49	mg/Kg	☼	12/05/16 14:30	12/06/16 15:46	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/06/16 15:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 78.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/02/16 16:10	12/06/16 17:49	1
Dibromofluoromethane	99		75 - 120	12/02/16 16:10	12/06/16 17:49	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/02/16 16:10	12/06/16 17:49	1
Toluene-d8 (Surr)	104		75 - 123	12/02/16 16:10	12/06/16 17:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Phenanthrene	0.040	J	0.042	0.0058	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Anthracene	0.0089	J	0.042	0.0070	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Fluoranthene	0.086		0.042	0.0078	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Pyrene	0.072		0.042	0.0083	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Benzo[a]anthracene	0.046		0.042	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.041	J	0.042	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Bis(2-ethylhexyl) phthalate	0.49		0.21	0.076	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Benzo[b]fluoranthene	0.063		0.042	0.0090	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Benzo[k]fluoranthene	0.028	J	0.042	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Benzo[a]pyrene	0.046		0.042	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.042	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		40 - 130	12/10/16 09:29	12/14/16 05:31	1
Phenol-d5	92		36 - 123	12/10/16 09:29	12/14/16 05:31	1
Nitrobenzene-d5	84		33 - 124	12/10/16 09:29	12/14/16 05:31	1
2-Fluorobiphenyl	78		42 - 115	12/10/16 09:29	12/14/16 05:31	1
2,4,6-Tribromophenol	41		25 - 130	12/10/16 09:29	12/14/16 05:31	1
Terphenyl-d14	90		25 - 150	12/10/16 09:29	12/14/16 05:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Arsenic	4.3		0.62	0.29	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Barium	86		0.62	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Beryllium	0.56		0.25	0.053	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Boron	3.0	J	3.1	0.43	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Cadmium	0.24		0.12	0.036	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Calcium	3700		12	4.0	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Chromium	15	B	0.62	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Cobalt	5.7		0.31	0.070	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Copper	16		0.62	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Iron	14000		12	4.8	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Lead	32		0.31	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Magnesium	1800		6.2	2.5	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Manganese	410		0.62	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Nickel	12	B	0.62	0.17	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Potassium	910		31	5.0	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Selenium	<0.62		0.62	0.31	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Sodium	430		62	8.2	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Thallium	0.90		0.62	0.30	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Vanadium	22		0.31	0.090	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1
Zinc	46		1.2	0.39	mg/Kg	☼	12/07/16 08:30	12/07/16 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:14	1
Boron	0.078	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 78.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 15:14	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:14	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:14	1
Iron	0.39	J	0.40	0.20	mg/L		12/06/16 14:16	12/07/16 15:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 15:14	1
Manganese	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:14	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:14	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 15:14	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:14	1
Zinc	0.028	J B	0.50	0.020	mg/L		12/06/16 14:16	12/07/16 15:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 20:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 20:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.019	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			12/06/16 15:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Bromomethane	<0.0054		0.0054	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/02/16 16:10	12/06/16 18:15	1
Dibromofluoromethane	99		75 - 120	12/02/16 16:10	12/06/16 18:15	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	12/02/16 16:10	12/06/16 18:15	1
Toluene-d8 (Surr)	103		75 - 123	12/02/16 16:10	12/06/16 18:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Naphthalene	0.0078	J	0.041	0.0064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Methylnaphthalene	0.013	J	0.084	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Phenanthrene	0.043		0.041	0.0058	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Anthracene	0.0070	J	0.041	0.0070	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Fluoranthene	0.071		0.041	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Pyrene	0.069		0.041	0.0083	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Benzo[a]anthracene	0.040	J	0.041	0.0056	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.041	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Benzo[b]fluoranthene	0.091		0.041	0.0090	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Benzo[k]fluoranthene	0.029 J		0.041	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Benzo[a]pyrene	0.050		0.041	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Indeno[1,2,3-cd]pyrene	0.027 J		0.041	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Dibenz(a,h)anthracene	0.012 J		0.041	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Benzo[g,h,i]perylene	0.020 J		0.041	0.013	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		40 - 130				12/10/16 09:29	12/14/16 05:57	1
Phenol-d5	116		36 - 123				12/10/16 09:29	12/14/16 05:57	1
Nitrobenzene-d5	98		33 - 124				12/10/16 09:29	12/14/16 05:57	1
2-Fluorobiphenyl	84		42 - 115				12/10/16 09:29	12/14/16 05:57	1
2,4,6-Tribromophenol	78		25 - 130				12/10/16 09:29	12/14/16 05:57	1
Terphenyl-d14	110		25 - 150				12/10/16 09:29	12/14/16 05:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43 J		1.2	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Arsenic	2.7		0.60	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Barium	110		0.60	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Beryllium	0.56		0.24	0.052	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Boron	7.2		3.0	0.42	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Cadmium	0.31		0.12	0.034	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Calcium	7700		12	3.8	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Chromium	11 B		0.60	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Cobalt	4.4		0.30	0.067	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Copper	19		0.60	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Iron	14000		12	4.6	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Lead	21		0.30	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Magnesium	2100		6.0	2.4	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Manganese	290		0.60	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Nickel	12 B		0.60	0.16	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Potassium	1100		30	4.9	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Selenium	0.33 J		0.60	0.29	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Sodium	230		60	7.9	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Thallium	0.70		0.60	0.29	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Vanadium	14		0.30	0.087	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1
Zinc	58		1.2	0.38	mg/Kg	☼	12/07/16 08:30	12/07/16 18:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:19	1
Boron	0.099 J		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Iron	<0.40		0.40	0.20	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Manganese	1.1		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Silver	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:19	1
Zinc	0.18	J B	0.50	0.020	mg/L	-	12/06/16 14:16	12/07/16 15:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.050		0.025	0.010	mg/L	-	12/06/16 14:13	12/07/16 21:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/06/16 14:16	12/07/16 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/06/16 14:16	12/07/16 20:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/06/16 13:45	12/07/16 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.019	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/06/16 15:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Vinyl acetate	<0.0050		0.0050	0.0018	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	12/02/16 16:10	12/06/16 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	12/02/16 16:10	12/06/16 18:40	1
Dibromofluoromethane	101		75 - 120	12/02/16 16:10	12/06/16 18:40	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/02/16 16:10	12/06/16 18:40	1
Toluene-d8 (Surr)	104		75 - 123	12/02/16 16:10	12/06/16 18:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	111		40 - 130				12/10/16 09:29	12/14/16 06:22	1
Phenol-d5	119		36 - 123				12/10/16 09:29	12/14/16 06:22	1
Nitrobenzene-d5	108		33 - 124				12/10/16 09:29	12/14/16 06:22	1
2-Fluorobiphenyl	95		42 - 115				12/10/16 09:29	12/14/16 06:22	1
2,4,6-Tribromophenol	72		25 - 130				12/10/16 09:29	12/14/16 06:22	1
Terphenyl-d14	113		25 - 150				12/10/16 09:29	12/14/16 06:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Arsenic	2.5		0.60	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Barium	79		0.60	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Beryllium	0.49		0.24	0.052	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Boron	2.8	J	3.0	0.42	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Cadmium	0.22		0.12	0.035	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Calcium	6000		12	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Chromium	13	B	0.60	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Cobalt	5.3		0.30	0.068	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Copper	9.3		0.60	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Iron	14000		12	4.6	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Lead	7.0		0.30	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Magnesium	3200		6.0	2.4	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Manganese	360		0.60	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Nickel	12	B	0.60	0.16	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Potassium	880		30	4.9	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Sodium	150		60	8.0	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Thallium	0.80		0.60	0.30	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Vanadium	17		0.30	0.088	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1
Zinc	32		1.2	0.38	mg/Kg	☼	12/07/16 08:30	12/07/16 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:23	1
Boron	0.084	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 15:23	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:23	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:23	1
Iron	0.26	J	0.40	0.20	mg/L		12/06/16 14:16	12/07/16 15:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 15:23	1
Manganese	0.031		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:23	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:23	1
Selenium	0.020	J	0.050	0.020	mg/L		12/06/16 14:16	12/07/16 15:23	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:23	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 15:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 20:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.010	mg/Kg	☼	12/05/16 14:30	12/06/16 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/06/16 15:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/02/16 16:10	12/06/16 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	12/02/16 16:10	12/06/16 19:06	1
Dibromofluoromethane	98		75 - 120	12/02/16 16:10	12/06/16 19:06	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 134	12/02/16 16:10	12/06/16 19:06	1
Toluene-d8 (Surr)	100		75 - 123	12/02/16 16:10	12/06/16 19:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Fluoranthene	0.012	J	0.037	0.0069	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Pyrene	0.015	J	0.037	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Benzo[a]anthracene	0.0088	J	0.037	0.0050	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Benzo[b]fluoranthene	0.016	J	0.037	0.0080	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/10/16 09:29	12/14/16 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/10/16 09:29	12/14/16 06:48	1
Phenol-d5	103		36 - 123	12/10/16 09:29	12/14/16 06:48	1
Nitrobenzene-d5	92		33 - 124	12/10/16 09:29	12/14/16 06:48	1
2-Fluorobiphenyl	81		42 - 115	12/10/16 09:29	12/14/16 06:48	1
2,4,6-Tribromophenol	26		25 - 130	12/10/16 09:29	12/14/16 06:48	1
Terphenyl-d14	97		25 - 150	12/10/16 09:29	12/14/16 06:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.0	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Arsenic	6.3		0.51	0.24	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Barium	47		0.51	0.094	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Beryllium	0.48		0.20	0.044	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Boron	4.3		2.6	0.36	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Cadmium	0.32		0.10	0.030	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Calcium	39000		10	3.3	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Chromium	12	B	0.51	0.088	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Cobalt	5.7		0.26	0.058	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Copper	12		0.51	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Iron	15000		10	3.9	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Lead	9.7		0.26	0.13	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Magnesium	21000		5.1	2.1	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Manganese	350		0.51	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Nickel	14	B	0.51	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Potassium	1200		26	4.2	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Sodium	1300		51	6.8	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Thallium	0.71		0.51	0.25	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Vanadium	21		0.26	0.075	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1
Zinc	34		1.0	0.32	mg/Kg	☼	12/07/16 08:30	12/07/16 18:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:28	1
Boron	<0.50		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 85.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 15:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:28	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:28	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 15:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 15:28	1
Manganese	0.24		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:28	1
Nickel	0.011	J	0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:28	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 15:28	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:28	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 15:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 21:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 20:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0095	mg/Kg	☼	12/05/16 14:30	12/06/16 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.7		0.2	0.2	SU			12/06/16 15:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/02/16 16:10	12/06/16 19:31	1
Dibromofluoromethane	97		75 - 120	12/02/16 16:10	12/06/16 19:31	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/02/16 16:10	12/06/16 19:31	1
Toluene-d8 (Surr)	103		75 - 123	12/02/16 16:10	12/06/16 19:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Phenanthrene	0.011	J	0.036	0.0050	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Fluoranthene	0.020	J	0.036	0.0066	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Pyrene	0.020	J	0.036	0.0071	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Benzo[a]anthracene	0.0096	J	0.036	0.0048	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.010	J	0.036	0.0098	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Benzo[b]fluoranthene	0.021	J	0.036	0.0077	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Benzo[a]pyrene	0.011	J	0.036	0.0069	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/10/16 09:29	12/14/16 07:13	1
Phenol-d5	89		36 - 123	12/10/16 09:29	12/14/16 07:13	1
Nitrobenzene-d5	79		33 - 124	12/10/16 09:29	12/14/16 07:13	1
2-Fluorobiphenyl	70		42 - 115	12/10/16 09:29	12/14/16 07:13	1
2,4,6-Tribromophenol	28		25 - 130	12/10/16 09:29	12/14/16 07:13	1
Terphenyl-d14	83		25 - 150	12/10/16 09:29	12/14/16 07:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.23	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Barium	38		0.56	0.10	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Beryllium	0.46		0.23	0.049	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Boron	3.9		2.8	0.39	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Cadmium	0.25		0.11	0.033	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Calcium	40000		11	3.6	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Chromium	11	B	0.56	0.097	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Cobalt	6.6		0.28	0.064	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Copper	11		0.56	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Iron	14000		11	4.3	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Lead	6.7		0.28	0.14	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Magnesium	21000		5.6	2.3	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Manganese	440		0.56	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Nickel	14	B	0.56	0.15	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Potassium	1300		28	4.6	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Sodium	1000		56	7.4	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Thallium	0.94		0.56	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Vanadium	17		0.28	0.082	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1
Zinc	28		1.1	0.36	mg/Kg	☼	12/07/16 08:30	12/07/16 18:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:33	1
Boron	0.053	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Iron	<0.40		0.40	0.20	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Manganese	2.5		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Nickel	0.028		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Silver	<0.025		0.025	0.010	mg/L	-	12/06/16 14:16	12/07/16 15:33	1
Zinc	0.023	J B	0.50	0.020	mg/L	-	12/06/16 14:16	12/07/16 15:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59		0.025	0.010	mg/L	-	12/06/16 14:13	12/07/16 21:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/06/16 14:16	12/07/16 20:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/06/16 14:16	12/07/16 20:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/06/16 13:45	12/07/16 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0095	mg/Kg	☼	12/05/16 14:30	12/06/16 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/06/16 15:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/02/16 16:10	12/06/16 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/02/16 16:10	12/06/16 19:55	1
Dibromofluoromethane	99		75 - 120	12/02/16 16:10	12/06/16 19:55	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/02/16 16:10	12/06/16 19:55	1
Toluene-d8 (Surr)	102		75 - 123	12/02/16 16:10	12/06/16 19:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Phenanthrene	0.0087	J	0.037	0.0052	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Fluoranthene	0.020	J	0.037	0.0070	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Pyrene	0.018	J	0.037	0.0075	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Benzo[a]anthracene	0.0098	J	0.037	0.0051	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0081	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Benzo[a]pyrene	0.011	J	0.037	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/10/16 09:29	12/14/16 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130	12/10/16 09:29	12/14/16 07:39	1
Phenol-d5	99		36 - 123	12/10/16 09:29	12/14/16 07:39	1
Nitrobenzene-d5	91		33 - 124	12/10/16 09:29	12/14/16 07:39	1
2-Fluorobiphenyl	78		42 - 115	12/10/16 09:29	12/14/16 07:39	1
2,4,6-Tribromophenol	36		25 - 130	12/10/16 09:29	12/14/16 07:39	1
Terphenyl-d14	96		25 - 150	12/10/16 09:29	12/14/16 07:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	0.90	0.19	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Arsenic	4.2		0.45	0.21	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Barium	71		0.45	0.082	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Beryllium	0.47		0.18	0.039	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Boron	3.0		2.2	0.31	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Cadmium	0.35		0.090	0.026	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Calcium	22000		9.0	2.9	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Chromium	13	B	0.45	0.077	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Cobalt	5.5		0.22	0.051	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Copper	12		0.45	0.097	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Iron	13000		9.0	3.5	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Lead	22		0.22	0.11	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Magnesium	11000		4.5	1.8	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Manganese	410		0.45	0.089	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Nickel	13	B	0.45	0.12	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Potassium	1100		22	3.7	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Sodium	170		45	5.9	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Thallium	0.93		0.45	0.22	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Vanadium	18		0.22	0.065	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1
Zinc	39		0.90	0.28	mg/Kg	☼	12/07/16 08:30	12/07/16 19:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 15:38	1
Boron	0.072	J	0.50	0.050	mg/L		12/06/16 14:16	12/07/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:38	1
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 15:38	1
Manganese	0.17		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:38	1
Selenium	0.021	J	0.050	0.020	mg/L		12/06/16 14:16	12/07/16 15:38	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		12/06/16 14:16	12/07/16 15:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 22:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 20:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 20:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.016	0.0086	mg/Kg	☼	12/05/16 14:30	12/06/16 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU			12/06/16 15:45	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

GC/MS VOA

Prep Batch: 363513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	5035	
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	5035	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	5035	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	5035	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	5035	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	5035	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	5035	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	5035	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	5035	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	5035	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	5035	
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	5035	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	5035	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	5035	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	5035	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 363745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	8260B	363513
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	8260B	363513
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	8260B	363513
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	8260B	363513
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	8260B	363513
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	8260B	363513
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	8260B	363513
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	8260B	363513
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	8260B	363513
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	8260B	363513
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	8260B	363513
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	8260B	363513
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	8260B	363513
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	8260B	363513
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	8260B	363513
MB 500-363745/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-363745/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-363745/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 363925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	8260B	363513
MB 500-363925/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-363925/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-363925/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 364505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

GC/MS Semi VOA (Continued)

Prep Batch: 364505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	3541	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	3541	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	3541	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	3541	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	3541	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	3541	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	3541	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	3541	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	3541	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	3541	
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	3541	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	3541	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	3541	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	3541	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	3541	
MB 500-364505/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-364505/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-120882-2 MS	1314V3-57-B02 (0-3)	Total/NA	Solid	3541	
500-120882-2 MSD	1314V3-57-B02 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 364728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364505/1-A	Method Blank	Total/NA	Solid	8270D	364505
LCS 500-364505/2-A	Lab Control Sample	Total/NA	Solid	8270D	364505

Analysis Batch: 364962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	8270D	364505
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	8270D	364505
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	8270D	364505
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	8270D	364505
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	8270D	364505
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	8270D	364505
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	8270D	364505
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	8270D	364505
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	8270D	364505
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	8270D	364505
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	8270D	364505
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	8270D	364505
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	8270D	364505
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	8270D	364505
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	8270D	364505
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	8270D	364505
500-120882-2 MS	1314V3-57-B02 (0-3)	Total/NA	Solid	8270D	364505
500-120882-2 MSD	1314V3-57-B02 (0-3)	Total/NA	Solid	8270D	364505

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Metals

Prep Batch: 363620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	7471B	
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	7471B	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	7471B	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	7471B	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	7471B	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	7471B	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	7471B	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	7471B	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	7471B	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	7471B	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	7471B	
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	7471B	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	7471B	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	7471B	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	7471B	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	7471B	
MB 500-363620/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-363620/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 363721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	SPLP East	Solid	1312	
500-120882-2	1314V3-57-B02 (0-3)	SPLP East	Solid	1312	
500-120882-4	1314V3-56-B03 (0-3)	SPLP East	Solid	1312	
500-120882-5	1314V3-56-B02 (0-3)	SPLP East	Solid	1312	
500-120882-6	1314V3-56-B02 (0-3)D	SPLP East	Solid	1312	
500-120882-7	1314V3-56-B01 (0-3)	SPLP East	Solid	1312	
500-120882-8	1314V3-59-B01 (0-5)	SPLP East	Solid	1312	
500-120882-9	1314V3-59-B01 (5-10)	SPLP East	Solid	1312	
500-120882-12	1314V3-26-B01 (0-8)	SPLP East	Solid	1312	
500-120882-14	1314V3-01-B30 (0-6)	SPLP East	Solid	1312	
500-120882-15	1314V3-01-B31 (0-6)	SPLP East	Solid	1312	
500-120882-16	1314V3-01-B20 (0-6)	SPLP East	Solid	1312	
LB 500-363721/1-B	Method Blank	SPLP East	Solid	1312	
500-120882-16 MS	1314V3-01-B20 (0-6)	SPLP East	Solid	1312	
500-120882-16 DU	1314V3-01-B20 (0-6)	SPLP East	Solid	1312	

Leach Batch: 363729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	1311	
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	1311	
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	1311	
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	1311	
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	1311	
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	1311	
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	1311	
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	1311	
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	1311	
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	1311	
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	1311	
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Metals (Continued)

Leach Batch: 363729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	1311	
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	1311	
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	1311	
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	1311	
LB 500-363729/1-C	Method Blank	TCLP	Solid	1311	
LB 500-363729/1-D	Method Blank	TCLP	Solid	1311	
500-120882-1 MS	1314V3-57-B03 (0-5)	TCLP	Solid	1311	
500-120882-1 DU	1314V3-57-B03 (0-5)	TCLP	Solid	1311	

Prep Batch: 363806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363729
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	7470A	363729
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	7470A	363729
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	7470A	363729
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	7470A	363729
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	7470A	363729
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	7470A	363729
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	7470A	363729
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	7470A	363729
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	7470A	363729
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	7470A	363729
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	7470A	363729
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	7470A	363729
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	7470A	363729
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	7470A	363729
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	7470A	363729
LB 500-363729/1-C	Method Blank	TCLP	Solid	7470A	363729
MB 500-363806/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-363806/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-120882-1 MS	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363729
500-120882-1 DU	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363729

Prep Batch: 363820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	SPLP East	Solid	3010A	363721
500-120882-2	1314V3-57-B02 (0-3)	SPLP East	Solid	3010A	363721
500-120882-4	1314V3-56-B03 (0-3)	SPLP East	Solid	3010A	363721
500-120882-5	1314V3-56-B02 (0-3)	SPLP East	Solid	3010A	363721
500-120882-6	1314V3-56-B02 (0-3)D	SPLP East	Solid	3010A	363721
500-120882-7	1314V3-56-B01 (0-3)	SPLP East	Solid	3010A	363721
500-120882-8	1314V3-59-B01 (0-5)	SPLP East	Solid	3010A	363721
500-120882-9	1314V3-59-B01 (5-10)	SPLP East	Solid	3010A	363721
500-120882-12	1314V3-26-B01 (0-8)	SPLP East	Solid	3010A	363721
500-120882-14	1314V3-01-B30 (0-6)	SPLP East	Solid	3010A	363721
500-120882-15	1314V3-01-B31 (0-6)	SPLP East	Solid	3010A	363721
500-120882-16	1314V3-01-B20 (0-6)	SPLP East	Solid	3010A	363721
LB 500-363721/1-B	Method Blank	SPLP East	Solid	3010A	363721
LCS 500-363820/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-120882-16 MS	1314V3-01-B20 (0-6)	SPLP East	Solid	3010A	363721
500-120882-16 DU	1314V3-01-B20 (0-6)	SPLP East	Solid	3010A	363721

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Prep Batch: 363822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	3010A	363729
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	3010A	363729
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	3010A	363729
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	3010A	363729
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	3010A	363729
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	3010A	363729
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	3010A	363729
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	3010A	363729
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	3010A	363729
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	3010A	363729
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	3010A	363729
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	3010A	363729
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	3010A	363729
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	3010A	363729
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	3010A	363729
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	3010A	363729
LB 500-363729/1-D	Method Blank	TCLP	Solid	3010A	363729
LCS 500-363822/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 363848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	7471B	363620
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	7471B	363620
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	7471B	363620
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	7471B	363620
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	7471B	363620
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	7471B	363620
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	7471B	363620
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	7471B	363620
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	7471B	363620
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	7471B	363620
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	7471B	363620
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	7471B	363620
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	7471B	363620
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	7471B	363620
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	7471B	363620
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	7471B	363620
MB 500-363620/12-A	Method Blank	Total/NA	Solid	7471B	363620
LCS 500-363620/13-A	Lab Control Sample	Total/NA	Solid	7471B	363620

Prep Batch: 363940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	3050B	
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	3050B	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	3050B	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	3050B	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	3050B	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	3050B	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	3050B	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	3050B	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	3050B	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	3050B	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Metals (Continued)

Prep Batch: 363940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	3050B	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	3050B	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	3050B	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	3050B	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	3050B	
MB 500-363940/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-363940/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-120882-1 MS	1314V3-57-B03 (0-5)	Total/NA	Solid	3050B	
500-120882-1 MSD	1314V3-57-B03 (0-5)	Total/NA	Solid	3050B	
500-120882-1 DU	1314V3-57-B03 (0-5)	Total/NA	Solid	3050B	

Analysis Batch: 363991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363806
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	7470A	363806
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	7470A	363806
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	7470A	363806
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	7470A	363806
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	7470A	363806
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	7470A	363806
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	7470A	363806
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	7470A	363806
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	7470A	363806
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	7470A	363806
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	7470A	363806
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	7470A	363806
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	7470A	363806
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	7470A	363806
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	7470A	363806
LB 500-363729/1-C	Method Blank	TCLP	Solid	7470A	363806
MB 500-363806/12-A	Method Blank	Total/NA	Solid	7470A	363806
LCS 500-363806/13-A	Lab Control Sample	Total/NA	Solid	7470A	363806
500-120882-1 MS	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363806
500-120882-1 DU	1314V3-57-B03 (0-5)	TCLP	Solid	7470A	363806

Analysis Batch: 364126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	6010B	363822
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	6010B	363822
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	6010B	363822
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	6010B	363822
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	6010B	363822
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	6010B	363822
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	6010B	363822
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	6010B	363822
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	6010B	363822
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	6010B	363822
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	6010B	363822
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	6010B	363822
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	6010B	363822
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	6010B	363822

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Metals (Continued)

Analysis Batch: 364126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	6010B	363822
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	6010B	363822
LB 500-363729/1-D	Method Blank	TCLP	Solid	6010B	363822
LCS 500-363822/2-A	Lab Control Sample	Total/NA	Solid	6010B	363822

Analysis Batch: 364150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	SPLP East	Solid	6010B	363820
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	6010B	363940
500-120882-2	1314V3-57-B02 (0-3)	SPLP East	Solid	6010B	363820
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	6010B	363940
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	6010B	363940
500-120882-4	1314V3-56-B03 (0-3)	SPLP East	Solid	6010B	363820
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	6010B	363940
500-120882-5	1314V3-56-B02 (0-3)	SPLP East	Solid	6010B	363820
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	6010B	363940
500-120882-6	1314V3-56-B02 (0-3)D	SPLP East	Solid	6010B	363820
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	6010B	363940
500-120882-7	1314V3-56-B01 (0-3)	SPLP East	Solid	6010B	363820
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	6010B	363940
500-120882-8	1314V3-59-B01 (0-5)	SPLP East	Solid	6010B	363820
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	6010B	363940
500-120882-9	1314V3-59-B01 (5-10)	SPLP East	Solid	6010B	363820
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	6010B	363940
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	6010B	363940
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	6010B	363940
500-120882-12	1314V3-26-B01 (0-8)	SPLP East	Solid	6010B	363820
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	6010B	363940
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	6010B	363940
500-120882-14	1314V3-01-B30 (0-6)	SPLP East	Solid	6010B	363820
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	6010B	363940
500-120882-15	1314V3-01-B31 (0-6)	SPLP East	Solid	6010B	363820
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	6010B	363940
500-120882-16	1314V3-01-B20 (0-6)	SPLP East	Solid	6010B	363820
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	6010B	363940
LB 500-363721/1-B	Method Blank	SPLP East	Solid	6010B	363820
MB 500-363940/1-A	Method Blank	Total/NA	Solid	6010B	363940
LCS 500-363820/2-A	Lab Control Sample	Total/NA	Solid	6010B	363820
LCS 500-363940/2-A	Lab Control Sample	Total/NA	Solid	6010B	363940
500-120882-1 MS	1314V3-57-B03 (0-5)	Total/NA	Solid	6010B	363940
500-120882-1 MSD	1314V3-57-B03 (0-5)	Total/NA	Solid	6010B	363940
500-120882-16 MS	1314V3-01-B20 (0-6)	SPLP East	Solid	6010B	363820
500-120882-1 DU	1314V3-57-B03 (0-5)	Total/NA	Solid	6010B	363940
500-120882-16 DU	1314V3-01-B20 (0-6)	SPLP East	Solid	6010B	363820

Analysis Batch: 364154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	TCLP	Solid	6020A	363822
500-120882-2	1314V3-57-B02 (0-3)	TCLP	Solid	6020A	363822
500-120882-3	1314V3-57-B01 (0-3)	TCLP	Solid	6020A	363822
500-120882-4	1314V3-56-B03 (0-3)	TCLP	Solid	6020A	363822

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Metals (Continued)

Analysis Batch: 364154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-5	1314V3-56-B02 (0-3)	TCLP	Solid	6020A	363822
500-120882-6	1314V3-56-B02 (0-3)D	TCLP	Solid	6020A	363822
500-120882-7	1314V3-56-B01 (0-3)	TCLP	Solid	6020A	363822
500-120882-8	1314V3-59-B01 (0-5)	TCLP	Solid	6020A	363822
500-120882-9	1314V3-59-B01 (5-10)	TCLP	Solid	6020A	363822
500-120882-10	1314V3-32-B08 (0-3)	TCLP	Solid	6020A	363822
500-120882-11	1314V3-32-B07 (0-3)	TCLP	Solid	6020A	363822
500-120882-12	1314V3-26-B01 (0-8)	TCLP	Solid	6020A	363822
500-120882-13	1314V3-26-B02 (0-8)	TCLP	Solid	6020A	363822
500-120882-14	1314V3-01-B30 (0-6)	TCLP	Solid	6020A	363822
500-120882-15	1314V3-01-B31 (0-6)	TCLP	Solid	6020A	363822
500-120882-16	1314V3-01-B20 (0-6)	TCLP	Solid	6020A	363822
LB 500-363729/1-D	Method Blank	TCLP	Solid	6020A	363822
LCS 500-363822/2-A	Lab Control Sample	Total/NA	Solid	6020A	363822

General Chemistry

Analysis Batch: 363399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	Moisture	
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	Moisture	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	Moisture	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	Moisture	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	Moisture	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	Moisture	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	Moisture	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	Moisture	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	Moisture	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	Moisture	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	Moisture	
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	Moisture	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	Moisture	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	Moisture	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	Moisture	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	Moisture	
500-120882-1 DU	1314V3-57-B03 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 363978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-1	1314V3-57-B03 (0-5)	Total/NA	Solid	9045D	
500-120882-2	1314V3-57-B02 (0-3)	Total/NA	Solid	9045D	
500-120882-3	1314V3-57-B01 (0-3)	Total/NA	Solid	9045D	
500-120882-4	1314V3-56-B03 (0-3)	Total/NA	Solid	9045D	
500-120882-5	1314V3-56-B02 (0-3)	Total/NA	Solid	9045D	
500-120882-6	1314V3-56-B02 (0-3)D	Total/NA	Solid	9045D	
500-120882-7	1314V3-56-B01 (0-3)	Total/NA	Solid	9045D	
500-120882-8	1314V3-59-B01 (0-5)	Total/NA	Solid	9045D	
500-120882-9	1314V3-59-B01 (5-10)	Total/NA	Solid	9045D	
500-120882-10	1314V3-32-B08 (0-3)	Total/NA	Solid	9045D	
500-120882-11	1314V3-32-B07 (0-3)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

General Chemistry (Continued)

Analysis Batch: 363978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120882-12	1314V3-26-B01 (0-8)	Total/NA	Solid	9045D	
500-120882-13	1314V3-26-B02 (0-8)	Total/NA	Solid	9045D	
500-120882-14	1314V3-01-B30 (0-6)	Total/NA	Solid	9045D	
500-120882-15	1314V3-01-B31 (0-6)	Total/NA	Solid	9045D	
500-120882-16	1314V3-01-B20 (0-6)	Total/NA	Solid	9045D	
500-120882-2 DU	1314V3-57-B02 (0-3)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-120882-1	1314V3-57-B03 (0-5)	108	100	105	100
500-120882-2	1314V3-57-B02 (0-3)	105	96	103	102
500-120882-3	1314V3-57-B01 (0-3)	108	100	105	102
500-120882-4	1314V3-56-B03 (0-3)	105	99	104	101
500-120882-5	1314V3-56-B02 (0-3)	109	98	108	101
500-120882-6	1314V3-56-B02 (0-3)D	108	100	108	102
500-120882-7	1314V3-56-B01 (0-3)	104	102	108	99
500-120882-8	1314V3-59-B01 (0-5)	107	98	105	103
500-120882-9	1314V3-59-B01 (5-10)	106	97	103	99
500-120882-10	1314V3-32-B08 (0-3)	106	101	103	102
500-120882-11	1314V3-32-B07 (0-3)	109	99	107	104
500-120882-12	1314V3-26-B01 (0-8)	108	99	102	103
500-120882-13	1314V3-26-B02 (0-8)	107	101	106	104
500-120882-14	1314V3-01-B30 (0-6)	107	98	112	100
500-120882-15	1314V3-01-B31 (0-6)	110	97	105	103
500-120882-16	1314V3-01-B20 (0-6)	105	99	104	102
LCS 500-363745/5	Lab Control Sample	101	96	97	103
LCS 500-363925/4	Lab Control Sample	102	93	95	105
LCSD 500-363745/6	Lab Control Sample Dup	102	94	96	103
LCSD 500-363925/5	Lab Control Sample Dup	100	96	100	103
MB 500-363745/7	Method Blank	106	95	93	103
MB 500-363925/7	Method Blank	108	94	100	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-120882-1	1314V3-57-B03 (0-5)	93	103	87	82	60	96
500-120882-2	1314V3-57-B02 (0-3)	114	118	92	91	67	108
500-120882-2 MS	1314V3-57-B02 (0-3)	107	115	103	88	84	106
500-120882-2 MSD	1314V3-57-B02 (0-3)	103	113	102	89	75	95
500-120882-3	1314V3-57-B01 (0-3)	86	81	76	72	31	88
500-120882-4	1314V3-56-B03 (0-3)	101	99	94	80	64	105
500-120882-5	1314V3-56-B02 (0-3)	91	86	78	75	55	88
500-120882-6	1314V3-56-B02 (0-3)D	107	104	96	82	40	100
500-120882-7	1314V3-56-B01 (0-3)	111	115	101	89	70	104
500-120882-8	1314V3-59-B01 (0-5)	108	99	103	92	67	103
500-120882-9	1314V3-59-B01 (5-10)	84	82	79	67	55	84
500-120882-10	1314V3-32-B08 (0-3)	108	114	103	94	68	108
500-120882-11	1314V3-32-B07 (0-3)	87	92	84	78	41	90
500-120882-12	1314V3-26-B01 (0-8)	105	116	98	84	78	110

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-120882-13	1314V3-26-B02 (0-8)	111	119	108	95	72	113
500-120882-14	1314V3-01-B30 (0-6)	96	103	92	81	26	97
500-120882-15	1314V3-01-B31 (0-6)	81	89	79	70	28	83
500-120882-16	1314V3-01-B20 (0-6)	94	99	91	78	36	96
LCS 500-364505/2-A	Lab Control Sample	100	99	94	86	102	97
MB 500-364505/1-A	Method Blank	97	98	93	93	71	100

Surrogate Legend

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14



QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363745/7

Matrix: Solid

Analysis Batch: 363745

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/06/16 11:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/06/16 11:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/06/16 11:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/06/16 11:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/06/16 11:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/06/16 11:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/06/16 11:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/06/16 11:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/06/16 11:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/06/16 11:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/06/16 11:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/06/16 11:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/06/16 11:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/06/16 11:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/06/16 11:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/06/16 11:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/06/16 11:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/06/16 11:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/06/16 11:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/06/16 11:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/06/16 11:10	1
2-Hexanone	0.00505		0.0050	0.0016	mg/Kg			12/06/16 11:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/06/16 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/06/16 11:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/06/16 11:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/06/16 11:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/06/16 11:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/06/16 11:10	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/06/16 11:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/06/16 11:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/06/16 11:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/06/16 11:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/06/16 11:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/06/16 11:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/06/16 11:10	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/06/16 11:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/06/16 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120		12/06/16 11:10	1
Dibromofluoromethane	95		75 - 120		12/06/16 11:10	1
1,2-Dichloroethane-d4 (Surr)	93		69 - 134		12/06/16 11:10	1
Toluene-d8 (Surr)	103		75 - 123		12/06/16 11:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363745/5

Matrix: Solid

Analysis Batch: 363745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0521		mg/Kg		104	40 - 148
Benzene	0.0500	0.0474		mg/Kg		95	70 - 120
Bromodichloromethane	0.0500	0.0510		mg/Kg		102	67 - 120
Bromoform	0.0500	0.0538		mg/Kg		108	50 - 129
Bromomethane	0.0500	0.0432		mg/Kg		86	50 - 134
2-Butanone (MEK)	0.0500	0.0501		mg/Kg		100	47 - 138
Carbon disulfide	0.0500	0.0466		mg/Kg		93	67 - 133
Carbon tetrachloride	0.0500	0.0473		mg/Kg		95	65 - 123
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0443		mg/Kg		89	40 - 150
Chloroform	0.0500	0.0494		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0458		mg/Kg		92	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	70 - 120
Dibromochloromethane	0.0500	0.0539		mg/Kg		108	68 - 120
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0508		mg/Kg		102	65 - 126
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 122
1,2-Dichloropropane	0.0500	0.0477		mg/Kg		95	70 - 126
Ethylbenzene	0.0500	0.0499		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0518		mg/Kg		104	51 - 139
Methylene Chloride	0.0500	0.0462		mg/Kg		92	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0518		mg/Kg		104	51 - 141
Methyl tert-butyl ether	0.0500	0.0504		mg/Kg		101	70 - 121
Styrene	0.0500	0.0512		mg/Kg		102	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
Tetrachloroethene	0.0500	0.0501		mg/Kg		100	70 - 122
Toluene	0.0500	0.0498		mg/Kg		100	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0528		mg/Kg		106	70 - 121
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 120
1,1,2-Trichloroethane	0.0500	0.0539		mg/Kg		108	70 - 120
Trichloroethene	0.0500	0.0484		mg/Kg		97	70 - 124
Vinyl acetate	0.0500	0.0368		mg/Kg		74	40 - 150
Vinyl chloride	0.0500	0.0486		mg/Kg		97	64 - 125
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 120
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	97		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-363745/6

Matrix: Solid

Analysis Batch: 363745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0471		mg/Kg		94	40 - 148	10	30
Benzene	0.0500	0.0478		mg/Kg		96	70 - 120	1	30
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 120	3	30
Bromoform	0.0500	0.0525		mg/Kg		105	50 - 129	2	30
Bromomethane	0.0500	0.0431		mg/Kg		86	50 - 134	0	30
2-Butanone (MEK)	0.0500	0.0464		mg/Kg		93	47 - 138	8	30
Carbon disulfide	0.0500	0.0473		mg/Kg		95	67 - 133	1	30
Carbon tetrachloride	0.0500	0.0475		mg/Kg		95	65 - 123	0	30
Chlorobenzene	0.0500	0.0491		mg/Kg		98	70 - 120	1	30
Chloroethane	0.0500	0.0514		mg/Kg		103	40 - 150	15	30
Chloroform	0.0500	0.0485		mg/Kg		97	70 - 120	2	30
Chloromethane	0.0500	0.0442		mg/Kg		88	63 - 135	4	30
cis-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120	0	30
cis-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	70 - 120	1	30
Dibromochloromethane	0.0500	0.0519		mg/Kg		104	68 - 120	4	30
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	65 - 126	4	30
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 122	1	30
1,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	70 - 126	2	30
Ethylbenzene	0.0500	0.0502		mg/Kg		100	70 - 120	0	30
2-Hexanone	0.0500	0.0500		mg/Kg		100	51 - 139	3	30
Methylene Chloride	0.0500	0.0453		mg/Kg		91	70 - 121	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0498		mg/Kg		100	51 - 141	4	30
Methyl tert-butyl ether	0.0500	0.0486		mg/Kg		97	70 - 121	4	30
Styrene	0.0500	0.0506		mg/Kg		101	70 - 121	1	30
1,1,1,2-Tetrachloroethane	0.0500	0.0562		mg/Kg		112	70 - 125	3	30
Tetrachloroethene	0.0500	0.0499		mg/Kg		100	70 - 122	0	30
Toluene	0.0500	0.0504		mg/Kg		101	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120	2	30
trans-1,3-Dichloropropene	0.0500	0.0524		mg/Kg		105	70 - 121	1	30
1,1,1-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 120	0	30
1,1,2-Trichloroethane	0.0500	0.0519		mg/Kg		104	70 - 120	4	30
Trichloroethene	0.0500	0.0484		mg/Kg		97	70 - 124	0	30
Vinyl acetate	0.0500	0.0328		mg/Kg		66	40 - 150	12	30
Vinyl chloride	0.0500	0.0463		mg/Kg		93	64 - 125	5	30
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 123	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		69 - 134
Toluene-d8 (Surr)	103		75 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-363925/7

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/07/16 11:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/07/16 11:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/07/16 11:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/07/16 11:34	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/07/16 11:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/07/16 11:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/07/16 11:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/07/16 11:34	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/07/16 11:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/07/16 11:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/07/16 11:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/07/16 11:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/07/16 11:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/07/16 11:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/07/16 11:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/07/16 11:34	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/07/16 11:34	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/07/16 11:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/07/16 11:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/07/16 11:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/07/16 11:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/07/16 11:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/07/16 11:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/07/16 11:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/07/16 11:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/07/16 11:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/07/16 11:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/07/16 11:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/07/16 11:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/07/16 11:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/07/16 11:34	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/07/16 11:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/07/16 11:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/07/16 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120		12/07/16 11:34	1
Dibromofluoromethane	94		75 - 120		12/07/16 11:34	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134		12/07/16 11:34	1
Toluene-d8 (Surr)	103		75 - 123		12/07/16 11:34	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363925/4

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0443		mg/Kg		89	40 - 148
Benzene	0.0500	0.0469		mg/Kg		94	70 - 120
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	67 - 120
Bromoform	0.0500	0.0470		mg/Kg		94	50 - 129
Bromomethane	0.0500	0.0434		mg/Kg		87	50 - 134
2-Butanone (MEK)	0.0500	0.0478		mg/Kg		96	47 - 138
Carbon disulfide	0.0500	0.0498		mg/Kg		100	67 - 133
Carbon tetrachloride	0.0500	0.0468		mg/Kg		94	65 - 123
Chlorobenzene	0.0500	0.0486		mg/Kg		97	70 - 120
Chloroethane	0.0500	0.0608		mg/Kg		122	40 - 150
Chloroform	0.0500	0.0479		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0435		mg/Kg		87	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 120
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	68 - 120
1,1-Dichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	65 - 126
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 122
1,2-Dichloropropane	0.0500	0.0463		mg/Kg		93	70 - 126
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0481		mg/Kg		96	51 - 139
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0487		mg/Kg		97	51 - 141
Methyl tert-butyl ether	0.0500	0.0456		mg/Kg		91	70 - 121
Styrene	0.0500	0.0487		mg/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0495		mg/Kg		99	70 - 122
Toluene	0.0500	0.0496		mg/Kg		99	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 121
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 120
1,1,2-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 120
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 124
Vinyl acetate	0.0500	0.0474		mg/Kg		95	40 - 150
Vinyl chloride	0.0500	0.0455		mg/Kg		91	64 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		69 - 134
Toluene-d8 (Surr)	105		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-363925/5

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0473		mg/Kg		95	40 - 148	7	30
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120	2	30
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 120	1	30
Bromoform	0.0500	0.0475		mg/Kg		95	50 - 129	1	30
Bromomethane	0.0500	0.0419		mg/Kg		84	50 - 134	3	30
2-Butanone (MEK)	0.0500	0.0498		mg/Kg		100	47 - 138	4	30
Carbon disulfide	0.0500	0.0502		mg/Kg		100	67 - 133	1	30
Carbon tetrachloride	0.0500	0.0471		mg/Kg		94	65 - 123	1	30
Chlorobenzene	0.0500	0.0482		mg/Kg		96	70 - 120	1	30
Chloroethane	0.0500	0.0516		mg/Kg		103	40 - 150	16	30
Chloroform	0.0500	0.0489		mg/Kg		98	70 - 120	2	30
Chloromethane	0.0500	0.0407		mg/Kg		81	63 - 135	7	30
cis-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 120	2	30
Dibromochloromethane	0.0500	0.0495		mg/Kg		99	68 - 120	1	30
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0509		mg/Kg		102	65 - 126	4	30
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 122	3	30
1,2-Dichloropropane	0.0500	0.0467		mg/Kg		93	70 - 126	1	30
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 120	3	30
2-Hexanone	0.0500	0.0522		mg/Kg		104	51 - 139	8	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 121	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0509		mg/Kg		102	51 - 141	4	30
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	70 - 121	4	30
Styrene	0.0500	0.0487		mg/Kg		97	70 - 121	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125	0	30
Tetrachloroethene	0.0500	0.0487		mg/Kg		97	70 - 122	1	30
Toluene	0.0500	0.0492		mg/Kg		98	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	2	30
trans-1,3-Dichloropropene	0.0500	0.0504		mg/Kg		101	70 - 121	1	30
1,1,1-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 120	1	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120	1	30
Trichloroethene	0.0500	0.0483		mg/Kg		97	70 - 124	3	30
Vinyl acetate	0.0500	0.0512		mg/Kg		102	40 - 150	8	30
Vinyl chloride	0.0500	0.0443		mg/Kg		89	64 - 125	3	30
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 123	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		70 - 120
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		69 - 134
Toluene-d8 (Surr)	103		75 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364505/1-A

Matrix: Solid

Analysis Batch: 364728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/10/16 09:29	12/12/16 21:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364505/1-A
Matrix: Solid
Analysis Batch: 364728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/10/16 09:29	12/12/16 21:22	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/10/16 09:29	12/12/16 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/10/16 09:29	12/12/16 21:22	1
Phenol-d5	98		36 - 123	12/10/16 09:29	12/12/16 21:22	1
Nitrobenzene-d5	93		33 - 124	12/10/16 09:29	12/12/16 21:22	1
2-Fluorobiphenyl	93		42 - 115	12/10/16 09:29	12/12/16 21:22	1
2,4,6-Tribromophenol	71		25 - 130	12/10/16 09:29	12/12/16 21:22	1
Terphenyl-d14	100		25 - 150	12/10/16 09:29	12/12/16 21:22	1

Lab Sample ID: LCS 500-364505/2-A
Matrix: Solid
Analysis Batch: 364728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.25		mg/Kg		93	55 - 118
Bis(2-chloroethyl)ether	1.33	1.15		mg/Kg		86	53 - 116
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	56 - 110
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	57 - 110
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	56 - 110
2-Methylphenol	1.33	1.16		mg/Kg		87	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		84	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 119
Hexachloroethane	1.33	1.18		mg/Kg		88	54 - 111
2-Chlorophenol	1.33	1.24		mg/Kg		93	57 - 117
Nitrobenzene	1.33	1.17		mg/Kg		88	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		90	59 - 116
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		92	60 - 116
Isophorone	1.33	1.14		mg/Kg		85	54 - 120
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	50 - 120
Hexachlorobutadiene	1.33	1.24		mg/Kg		93	56 - 120
Naphthalene	1.33	1.18		mg/Kg		89	58 - 116
2,4-Dichlorophenol	1.33	1.24		mg/Kg		93	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364505/2-A

Matrix: Solid

Analysis Batch: 364728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
4-Chloroaniline	1.33	1.18		mg/Kg		88	10 - 150
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,5-Trichlorophenol	1.33	1.25		mg/Kg		94	42 - 119
Hexachlorocyclopentadiene	1.33	0.953		mg/Kg		71	10 - 116
2-Methylnaphthalene	1.33	1.15		mg/Kg		86	55 - 120
2-Nitroaniline	1.33	1.22		mg/Kg		92	52 - 121
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	57 - 112
4-Chloro-3-methylphenol	1.33	1.27		mg/Kg		95	59 - 117
2,6-Dinitrotoluene	1.33	1.27		mg/Kg		95	57 - 118
2-Nitrophenol	1.33	1.23		mg/Kg		92	58 - 121
3-Nitroaniline	1.33	1.37		mg/Kg		103	20 - 144
Dimethyl phthalate	1.33	1.18		mg/Kg		89	60 - 112
2,4-Dinitrophenol	2.67	0.862		mg/Kg		32	10 - 110
Acenaphthylene	1.33	1.13		mg/Kg		85	57 - 116
2,4-Dinitrotoluene	1.33	1.23		mg/Kg		92	59 - 119
Acenaphthene	1.33	1.17		mg/Kg		87	52 - 113
Dibenzofuran	1.33	1.19		mg/Kg		89	59 - 110
4-Nitrophenol	2.67	2.50		mg/Kg		94	32 - 123
Fluorene	1.33	1.19		mg/Kg		90	56 - 115
4-Nitroaniline	1.33	1.60		mg/Kg		120	55 - 146
4-Bromophenyl phenyl ether	1.33	1.26		mg/Kg		94	61 - 124
Hexachlorobenzene	1.33	1.27		mg/Kg		95	62 - 126
Diethyl phthalate	1.33	1.19		mg/Kg		89	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	61 - 111
Pentachlorophenol	2.67	1.87		mg/Kg		70	12 - 116
N-Nitrosodiphenylamine	1.33	1.21		mg/Kg		91	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.46		mg/Kg		55	10 - 110
Phenanthrene	1.33	1.19		mg/Kg		89	58 - 125
Anthracene	1.33	1.20		mg/Kg		90	57 - 118
Carbazole	1.33	1.59		mg/Kg		119	65 - 137
Di-n-butyl phthalate	1.33	1.23		mg/Kg		92	61 - 123
Fluoranthene	1.33	1.21		mg/Kg		90	61 - 124
Pyrene	1.33	1.21		mg/Kg		91	60 - 115
Butyl benzyl phthalate	1.33	1.22		mg/Kg		91	61 - 115
Benzo[a]anthracene	1.33	1.30		mg/Kg		97	63 - 115
Chrysene	1.33	1.19		mg/Kg		89	63 - 118
3,3'-Dichlorobenzidine	1.33	1.14		mg/Kg		86	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.23		mg/Kg		92	62 - 117
Di-n-octyl phthalate	1.33	1.26		mg/Kg		95	58 - 129
Benzo[b]fluoranthene	1.33	1.32		mg/Kg		99	61 - 123
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	59 - 125
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.27		mg/Kg		95	50 - 149
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	61 - 134
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	55 - 134
3 & 4 Methylphenol	1.33	1.23		mg/Kg		92	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364505/2-A
Matrix: Solid
Analysis Batch: 364728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364505

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	100		40 - 130
Phenol-d5	99		36 - 123
Nitrobenzene-d5	94		33 - 124
2-Fluorobiphenyl	86		42 - 115
2,4,6-Tribromophenol	102		25 - 130
Terphenyl-d14	97		25 - 150

Lab Sample ID: 500-120882-2 MS
Matrix: Solid
Analysis Batch: 364962

Client Sample ID: 1314V3-57-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 364505

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19	F1	1.48	1.89	F1	mg/Kg	☼	127	55 - 118
Bis(2-chloroethyl)ether	<0.19		1.48	1.58		mg/Kg	☼	106	53 - 116
1,3-Dichlorobenzene	<0.19		1.48	1.33		mg/Kg	☼	90	56 - 110
1,4-Dichlorobenzene	<0.19		1.48	1.36		mg/Kg	☼	92	57 - 110
1,2-Dichlorobenzene	<0.19		1.48	1.34		mg/Kg	☼	90	56 - 110
2-Methylphenol	<0.19		1.48	1.60		mg/Kg	☼	108	53 - 123
2,2'-oxybis[1-chloropropane]	<0.19		1.48	1.51		mg/Kg	☼	101	22 - 133
N-Nitrosodi-n-propylamine	<0.074		1.48	1.68		mg/Kg	☼	113	56 - 119
Hexachloroethane	<0.19		1.48	1.29		mg/Kg	☼	87	54 - 111
2-Chlorophenol	<0.19		1.48	1.40		mg/Kg	☼	95	57 - 117
Nitrobenzene	<0.037		1.48	1.64		mg/Kg	☼	111	56 - 121
Bis(2-chloroethoxy)methane	<0.19		1.48	1.60		mg/Kg	☼	108	59 - 116
1,2,4-Trichlorobenzene	<0.19		1.48	1.36		mg/Kg	☼	92	60 - 116
Isophorone	<0.19		1.48	1.41		mg/Kg	☼	95	54 - 120
2,4-Dimethylphenol	<0.37		1.48	1.41		mg/Kg	☼	95	50 - 120
Hexachlorobutadiene	<0.19		1.48	1.27		mg/Kg	☼	85	56 - 120
Naphthalene	0.023	J	1.48	1.39		mg/Kg	☼	92	58 - 116
2,4-Dichlorophenol	<0.37		1.48	1.47		mg/Kg	☼	99	61 - 116
4-Chloroaniline	<0.74		1.48	1.57		mg/Kg	☼	106	10 - 150
2,4,6-Trichlorophenol	<0.37		1.48	1.25		mg/Kg	☼	84	50 - 120
2,4,5-Trichlorophenol	<0.37		1.48	1.38		mg/Kg	☼	93	42 - 119
Hexachlorocyclopentadiene	<0.74	F1	1.48	<0.75	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	0.0098	J	1.48	1.38		mg/Kg	☼	92	55 - 120
2-Nitroaniline	<0.19		1.48	1.70		mg/Kg	☼	114	52 - 121
2-Chloronaphthalene	<0.19		1.48	1.43		mg/Kg	☼	96	57 - 112
4-Chloro-3-methylphenol	<0.37		1.48	1.62		mg/Kg	☼	109	59 - 117
2,6-Dinitrotoluene	<0.19		1.48	1.47		mg/Kg	☼	99	57 - 118
2-Nitrophenol	<0.37		1.48	1.52		mg/Kg	☼	102	58 - 121
3-Nitroaniline	<0.37		1.48	1.48		mg/Kg	☼	100	20 - 144
Dimethyl phthalate	<0.19		1.48	1.36		mg/Kg	☼	91	60 - 112
2,4-Dinitrophenol	<0.74		2.97	2.85		mg/Kg	☼	96	10 - 110
Acenaphthylene	0.0060	J	1.48	1.39		mg/Kg	☼	93	57 - 116
2,4-Dinitrotoluene	<0.19		1.48	1.51		mg/Kg	☼	102	59 - 119
Acenaphthene	0.016	J	1.48	1.32		mg/Kg	☼	88	52 - 113
Dibenzofuran	<0.19		1.48	1.44		mg/Kg	☼	97	59 - 110
4-Nitrophenol	<0.74		2.97	2.32		mg/Kg	☼	78	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120882-2 MS

Matrix: Solid

Analysis Batch: 364962

Client Sample ID: 1314V3-57-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 364505

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Fluorene	0.014	J	1.48	1.47		mg/Kg	☼	98	56 - 115
4-Nitroaniline	<0.37	F1	1.48	2.18	F1	mg/Kg	☼	147	55 - 146
4-Bromophenyl phenyl ether	<0.19		1.48	1.48		mg/Kg	☼	100	61 - 124
Hexachlorobenzene	<0.074		1.48	1.45		mg/Kg	☼	98	62 - 126
Diethyl phthalate	<0.19		1.48	1.60		mg/Kg	☼	108	58 - 117
4-Chlorophenyl phenyl ether	<0.19		1.48	1.50		mg/Kg	☼	101	61 - 111
Pentachlorophenol	<0.74	F1	2.97	<0.75	F1	mg/Kg	☼	0	12 - 116
N-Nitrosodiphenylamine	<0.19		1.48	1.53		mg/Kg	☼	103	62 - 117
4,6-Dinitro-2-methylphenol	<0.74		2.97	3.03		mg/Kg	☼	102	10 - 110
Phenanthrene	0.14		1.48	1.50		mg/Kg	☼	92	58 - 125
Anthracene	0.034	J	1.48	1.48		mg/Kg	☼	97	57 - 118
Carbazole	<0.19		1.48	1.76		mg/Kg	☼	119	65 - 137
Di-n-butyl phthalate	<0.19		1.48	1.52		mg/Kg	☼	102	61 - 123
Fluoranthene	0.22		1.48	1.58		mg/Kg	☼	92	61 - 124
Pyrene	0.20		1.48	1.51		mg/Kg	☼	89	60 - 115
Butyl benzyl phthalate	<0.19		1.48	1.62		mg/Kg	☼	109	61 - 115
Benzo[a]anthracene	0.12		1.48	1.55		mg/Kg	☼	96	63 - 115
Chrysene	0.11		1.48	1.46		mg/Kg	☼	91	63 - 118
3,3'-Dichlorobenzidine	<0.19		1.48	0.836		mg/Kg	☼	56	40 - 110
Bis(2-ethylhexyl) phthalate	<0.19		1.48	1.67		mg/Kg	☼	112	62 - 117
Di-n-octyl phthalate	<0.19		1.48	1.61		mg/Kg	☼	109	58 - 129
Benzo[b]fluoranthene	0.17		1.48	1.66		mg/Kg	☼	100	61 - 123
Benzo[k]fluoranthene	0.075		1.48	1.60		mg/Kg	☼	103	59 - 125
Benzo[a]pyrene	0.16		1.48	1.85		mg/Kg	☼	114	64 - 122
Indeno[1,2,3-cd]pyrene	0.082		1.48	1.21		mg/Kg	☼	76	50 - 149
Dibenz(a,h)anthracene	0.026	J	1.48	1.23		mg/Kg	☼	81	61 - 134
Benzo[g,h,i]perylene	0.074		1.48	1.09		mg/Kg	☼	69	55 - 134
3 & 4 Methylphenol	<0.19		1.48	1.69		mg/Kg	☼	114	55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	107		40 - 130
Phenol-d5	115		36 - 123
Nitrobenzene-d5	103		33 - 124
2-Fluorobiphenyl	88		42 - 115
2,4,6-Tribromophenol	84		25 - 130
Terphenyl-d14	106		25 - 150

Lab Sample ID: 500-120882-2 MSD

Matrix: Solid

Analysis Batch: 364962

Client Sample ID: 1314V3-57-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 364505

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.19	F1	1.43	1.73	F1	mg/Kg	☼	121	55 - 118	9	30
Bis(2-chloroethyl)ether	<0.19		1.43	1.45		mg/Kg	☼	102	53 - 116	8	30
1,3-Dichlorobenzene	<0.19		1.43	1.25		mg/Kg	☼	87	56 - 110	7	30
1,4-Dichlorobenzene	<0.19		1.43	1.28		mg/Kg	☼	89	57 - 110	7	30
1,2-Dichlorobenzene	<0.19		1.43	1.25		mg/Kg	☼	88	56 - 110	7	30
2-Methylphenol	<0.19		1.43	1.73		mg/Kg	☼	121	53 - 123	8	30

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120882-2 MSD

Matrix: Solid

Analysis Batch: 364962

Client Sample ID: 1314V3-57-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 364505

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.19		1.43	1.49		mg/Kg	☼	105	22 - 133	1	30
N-Nitrosodi-n-propylamine	<0.074		1.43	1.62		mg/Kg	☼	113	56 - 119	4	30
Hexachloroethane	<0.19		1.43	1.27		mg/Kg	☼	89	54 - 111	2	30
2-Chlorophenol	<0.19		1.43	1.34		mg/Kg	☼	94	57 - 117	5	30
Nitrobenzene	<0.037		1.43	1.57		mg/Kg	☼	110	56 - 121	4	30
Bis(2-chloroethoxy)methane	<0.19		1.43	1.51		mg/Kg	☼	106	59 - 116	6	30
1,2,4-Trichlorobenzene	<0.19		1.43	1.23		mg/Kg	☼	86	60 - 116	10	30
Isophorone	<0.19		1.43	1.36		mg/Kg	☼	95	54 - 120	4	30
2,4-Dimethylphenol	<0.37		1.43	1.30		mg/Kg	☼	91	50 - 120	8	30
Hexachlorobutadiene	<0.19		1.43	1.13		mg/Kg	☼	80	56 - 120	11	30
Naphthalene	0.023	J	1.43	1.26		mg/Kg	☼	87	58 - 116	10	30
2,4-Dichlorophenol	<0.37		1.43	1.33		mg/Kg	☼	93	61 - 116	10	30
4-Chloroaniline	<0.74		1.43	1.37		mg/Kg	☼	96	10 - 150	13	30
2,4,6-Trichlorophenol	<0.37		1.43	1.15		mg/Kg	☼	81	50 - 120	8	30
2,4,5-Trichlorophenol	<0.37		1.43	1.19		mg/Kg	☼	83	42 - 119	15	30
Hexachlorocyclopentadiene	<0.74	F1	1.43	<0.72	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	0.0098	J	1.43	1.28		mg/Kg	☼	89	55 - 120	7	30
2-Nitroaniline	<0.19		1.43	1.60		mg/Kg	☼	112	52 - 121	6	30
2-Chloronaphthalene	<0.19		1.43	1.34		mg/Kg	☼	94	57 - 112	7	30
4-Chloro-3-methylphenol	<0.37		1.43	1.49		mg/Kg	☼	104	59 - 117	9	30
2,6-Dinitrotoluene	<0.19		1.43	1.39		mg/Kg	☼	97	57 - 118	5	30
2-Nitrophenol	<0.37		1.43	1.40		mg/Kg	☼	98	58 - 121	8	30
3-Nitroaniline	<0.37		1.43	1.40		mg/Kg	☼	98	20 - 144	5	30
Dimethyl phthalate	<0.19		1.43	1.29		mg/Kg	☼	91	60 - 112	5	30
2,4-Dinitrophenol	<0.74		2.85	2.42		mg/Kg	☼	85	10 - 110	16	30
Acenaphthylene	0.0060	J	1.43	1.30		mg/Kg	☼	90	57 - 116	7	30
2,4-Dinitrotoluene	<0.19		1.43	1.36		mg/Kg	☼	96	59 - 119	10	30
Acenaphthene	0.016	J	1.43	1.19		mg/Kg	☼	82	52 - 113	10	30
Dibenzofuran	<0.19		1.43	1.31		mg/Kg	☼	92	59 - 110	9	30
4-Nitrophenol	<0.74		2.85	1.76		mg/Kg	☼	62	32 - 123	28	30
Fluorene	0.014	J	1.43	1.34		mg/Kg	☼	93	56 - 115	9	30
4-Nitroaniline	<0.37	F1	1.43	1.93		mg/Kg	☼	135	55 - 146	12	30
4-Bromophenyl phenyl ether	<0.19		1.43	1.32		mg/Kg	☼	93	61 - 124	11	30
Hexachlorobenzene	<0.074		1.43	1.28		mg/Kg	☼	90	62 - 126	12	30
Diethyl phthalate	<0.19		1.43	1.39		mg/Kg	☼	98	58 - 117	14	30
4-Chlorophenyl phenyl ether	<0.19		1.43	1.33		mg/Kg	☼	93	61 - 111	12	30
Pentachlorophenol	<0.74	F1	2.85	<0.72	F1	mg/Kg	☼	0	12 - 116	NC	30
N-Nitrosodiphenylamine	<0.19		1.43	1.34		mg/Kg	☼	94	62 - 117	14	30
4,6-Dinitro-2-methylphenol	<0.74		2.85	2.58		mg/Kg	☼	90	10 - 110	16	30
Phenanthrene	0.14		1.43	1.36		mg/Kg	☼	86	58 - 125	10	30
Anthracene	0.034	J	1.43	1.31		mg/Kg	☼	90	57 - 118	12	30
Carbazole	<0.19		1.43	1.56		mg/Kg	☼	109	65 - 137	12	30
Di-n-butyl phthalate	<0.19		1.43	1.34		mg/Kg	☼	94	61 - 123	13	30
Fluoranthene	0.22		1.43	1.39		mg/Kg	☼	82	61 - 124	13	30
Pyrene	0.20		1.43	1.28		mg/Kg	☼	76	60 - 115	16	30
Butyl benzyl phthalate	<0.19		1.43	1.41		mg/Kg	☼	99	61 - 115	14	30
Benzo[a]anthracene	0.12		1.43	1.39		mg/Kg	☼	89	63 - 115	11	30
Chrysene	0.11		1.43	1.31		mg/Kg	☼	84	63 - 118	11	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120882-2 MSD
Matrix: Solid
Analysis Batch: 364962

Client Sample ID: 1314V3-57-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 364505

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
3,3'-Dichlorobenzidine	<0.19		1.43	0.798		mg/Kg	☼	56	40 - 110	5	30
Bis(2-ethylhexyl) phthalate	<0.19		1.43	1.49		mg/Kg	☼	104	62 - 117	11	30
Di-n-octyl phthalate	<0.19		1.43	1.55		mg/Kg	☼	109	58 - 129	4	30
Benzo[b]fluoranthene	0.17		1.43	1.60		mg/Kg	☼	100	61 - 123	4	30
Benzo[k]fluoranthene	0.075		1.43	1.55		mg/Kg	☼	104	59 - 125	3	30
Benzo[a]pyrene	0.16		1.43	1.71		mg/Kg	☼	109	64 - 122	8	30
Indeno[1,2,3-cd]pyrene	0.082		1.43	1.09		mg/Kg	☼	71	50 - 149	11	30
Dibenz(a,h)anthracene	0.026	J	1.43	1.11		mg/Kg	☼	76	61 - 134	10	30
Benzo[g,h,i]perylene	0.074		1.43	0.972		mg/Kg	☼	63	55 - 134	12	30
3 & 4 Methylphenol	<0.19		1.43	1.64		mg/Kg	☼	115	55 - 124	3	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorophenol	103		40 - 130								
Phenol-d5	113		36 - 123								
Nitrobenzene-d5	102		33 - 124								
2-Fluorobiphenyl	89		42 - 115								
2,4,6-Tribromophenol	75		25 - 130								
Terphenyl-d14	95		25 - 150								

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-363820/2-A
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363820

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.0893		mg/L		89	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120

Lab Sample ID: LCS 500-363822/2-A
Matrix: Solid
Analysis Batch: 364126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363822

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	2.00	1.95		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Boron	1.00	0.882		mg/L		88	80 - 120
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Chromium	0.200	0.190		mg/L		95	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Iron	1.00	0.989		mg/L		99	80 - 120
Lead	0.100	0.0935		mg/L		94	80 - 120
Manganese	0.500	0.488		mg/L		98	80 - 120
Nickel	0.500	0.483		mg/L		97	80 - 120
Selenium	0.100	0.0929		mg/L		93	80 - 120
Silver	0.0500	0.0446		mg/L		89	80 - 120
Zinc	0.500	0.471	J	mg/L		94	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-363940/1-A
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Barium	<1.0		1.0	0.18	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Boron	<5.0		5.0	0.70	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Calcium	<20		20	6.4	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Chromium	0.637	J	1.0	0.17	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Copper	<1.0		1.0	0.22	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Iron	<20		20	7.7	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Lead	<0.50		0.50	0.25	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Magnesium	<10		10	4.1	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Nickel	0.284	J	1.0	0.27	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Potassium	<50		50	8.2	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Silver	<0.50		0.50	0.12	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Sodium	<100		100	13	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/07/16 08:30	12/07/16 15:49	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/07/16 08:30	12/07/16 15:49	1

Lab Sample ID: LCS 500-363940/2-A
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	43.2		mg/Kg		86	80 - 120
Arsenic	10.0	8.79		mg/Kg		88	80 - 120
Barium	200	181		mg/Kg		91	80 - 120
Beryllium	5.00	4.60		mg/Kg		92	80 - 120
Boron	100	85.3		mg/Kg		85	80 - 120
Cadmium	5.00	4.54		mg/Kg		91	80 - 120
Calcium	1000	940		mg/Kg		94	80 - 120
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Cobalt	50.0	45.6		mg/Kg		91	80 - 120
Copper	25.0	23.0		mg/Kg		92	80 - 120
Iron	100	103		mg/Kg		103	80 - 120
Lead	10.0	9.29		mg/Kg		93	80 - 120
Magnesium	1000	911		mg/Kg		91	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	46.1		mg/Kg		92	80 - 120
Potassium	1000	948		mg/Kg		95	80 - 120
Selenium	10.0	8.30		mg/Kg		83	80 - 120
Silver	5.00	4.51		mg/Kg		90	80 - 120
Sodium	1000	923		mg/Kg		92	80 - 120
Thallium	10.0	9.09		mg/Kg		91	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-363940/2-A
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363940
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	45.7		mg/Kg		91	80 - 120

Lab Sample ID: 500-120882-1 MS
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: Total/NA
Prep Batch: 363940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.32	J F1	25.7	6.44	F1	mg/Kg	☼	24	75 - 125
Arsenic	5.0	F1	5.15	7.76	F1	mg/Kg	☼	54	75 - 125
Barium	73	F1	103	142	F1	mg/Kg	☼	67	75 - 125
Beryllium	0.45		2.57	2.53		mg/Kg	☼	81	75 - 125
Boron	3.0	F1	51.5	36.2	F1	mg/Kg	☼	64	75 - 125
Cadmium	0.22	F1	2.57	2.01	F1	mg/Kg	☼	69	75 - 125
Calcium	11000	F2	515	4960	4	mg/Kg	☼	-1218	75 - 125
Chromium	12	B	10.3	23.2		mg/Kg	☼	113	75 - 125
Cobalt	5.3	F1	25.7	26.3		mg/Kg	☼	82	75 - 125
Copper	17	F1	12.9	20.8	F1	mg/Kg	☼	26	75 - 125
Iron	12000		51.5	14600	4	mg/Kg	☼	4104	75 - 125
Lead	14	F1	5.15	15.7	F1	mg/Kg	☼	24	75 - 125
Magnesium	6600	F2	515	3910	4	mg/Kg	☼	-528	75 - 125
Manganese	360		25.7	248	4	mg/Kg	☼	-447	75 - 125
Nickel	11	B F1	25.7	30.5	F1	mg/Kg	☼	74	75 - 125
Potassium	870	F1	515	1710	F1	mg/Kg	☼	162	75 - 125
Selenium	<0.55	F1	5.15	3.49	F1	mg/Kg	☼	68	75 - 125
Silver	<0.28		2.57	2.05		mg/Kg	☼	80	75 - 125
Sodium	780		515	1210		mg/Kg	☼	84	75 - 125
Thallium	0.77		5.15	4.70		mg/Kg	☼	76	75 - 125
Vanadium	20		25.7	43.3		mg/Kg	☼	91	75 - 125
Zinc	33	F1	25.7	53.3		mg/Kg	☼	78	75 - 125

Lab Sample ID: 500-120882-1 MSD
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: Total/NA
Prep Batch: 363940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	0.32	J F1	25.9	6.34	F1	mg/Kg	☼	23	75 - 125	2	20
Arsenic	5.0	F1	5.18	7.91	F1	mg/Kg	☼	56	75 - 125	2	20
Barium	73	F1	104	142	F1	mg/Kg	☼	66	75 - 125	0	20
Beryllium	0.45		2.59	2.53		mg/Kg	☼	80	75 - 125	0	20
Boron	3.0	F1	51.8	38.8	F1	mg/Kg	☼	69	75 - 125	7	20
Cadmium	0.22	F1	2.59	2.10	F1	mg/Kg	☼	72	75 - 125	4	20
Calcium	11000	F2	518	11500	4 F2	mg/Kg	☼	51	75 - 125	79	20
Chromium	12	B	10.4	21.8		mg/Kg	☼	98	75 - 125	7	20
Cobalt	5.3	F1	25.9	24.5	F1	mg/Kg	☼	74	75 - 125	7	20
Copper	17	F1	12.9	23.7	F1	mg/Kg	☼	48	75 - 125	13	20
Iron	12000		51.8	12600	4	mg/Kg	☼	192	75 - 125	15	20
Lead	14	F1	5.18	17.1	F1	mg/Kg	☼	51	75 - 125	9	20
Magnesium	6600	F2	518	6090	4 F2	mg/Kg	☼	-103	75 - 125	44	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-120882-1 MSD
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: Total/NA
Prep Batch: 363940

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Manganese	360		25.9	263	4	mg/Kg	☼	-386	75 - 125	6	20	
Nickel	11	B F1	25.9	30.6		mg/Kg	☼	75	75 - 125	0	20	
Potassium	870	F1	518	1690	F1	mg/Kg	☼	158	75 - 125	1	20	
Selenium	<0.55	F1	5.18	3.66	F1	mg/Kg	☼	71	75 - 125	5	20	
Silver	<0.28		2.59	2.16		mg/Kg	☼	83	75 - 125	5	20	
Sodium	780		518	1200		mg/Kg	☼	83	75 - 125	0	20	
Thallium	0.77		5.18	4.81		mg/Kg	☼	78	75 - 125	2	20	
Vanadium	20		25.9	43.0		mg/Kg	☼	90	75 - 125	1	20	
Zinc	33	F1	25.9	51.0	F1	mg/Kg	☼	68	75 - 125	4	20	

Lab Sample ID: 500-120882-1 DU
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: Total/NA
Prep Batch: 363940

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.32	J F1	0.244	J F5	mg/Kg	☼	26	20
Arsenic	5.0	F1	3.59	F3	mg/Kg	☼	33	20
Barium	73	F1	62.9		mg/Kg	☼	15	20
Beryllium	0.45		0.422		mg/Kg	☼	6	20
Boron	3.0	F1	2.99		mg/Kg	☼	0.6	20
Cadmium	0.22	F1	0.178	F5	mg/Kg	☼	21	20
Calcium	11000	F2	10800		mg/Kg	☼	4	20
Chromium	12	B	11.3		mg/Kg	☼	3	20
Cobalt	5.3	F1	4.26	F3	mg/Kg	☼	23	20
Copper	17	F1	15.9		mg/Kg	☼	9	20
Iron	12000		11000		mg/Kg	☼	12	20
Lead	14	F1	15.8		mg/Kg	☼	9	20
Magnesium	6600	F2	6570		mg/Kg	☼	0.8	20
Manganese	360		197	F3	mg/Kg	☼	59	20
Nickel	11	B F1	10.1		mg/Kg	☼	12	20
Potassium	870	F1	878		mg/Kg	☼	0.6	20
Selenium	<0.55	F1	<0.52		mg/Kg	☼	NC	20
Silver	<0.28		<0.26		mg/Kg	☼	NC	20
Sodium	780		723		mg/Kg	☼	7	20
Thallium	0.77		0.537	F5	mg/Kg	☼	36	20
Vanadium	20		18.0		mg/Kg	☼	9	20
Zinc	33	F1	30.5		mg/Kg	☼	9	20

Lab Sample ID: LB 500-363729/1-D
Matrix: Solid
Analysis Batch: 364126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363822

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/06/16 14:16	12/07/16 13:28	1
Boron	<0.50		0.50	0.050	mg/L		12/06/16 14:16	12/07/16 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/06/16 14:16	12/07/16 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 13:28	1
Cobalt	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 13:28	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-363729/1-D
Matrix: Solid
Analysis Batch: 364126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363822

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.40		0.40	0.20	mg/L		12/06/16 14:16	12/07/16 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:16	12/07/16 13:28	1
Manganese	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 13:28	1
Nickel	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		12/06/16 14:16	12/07/16 13:28	1
Silver	<0.025		0.025	0.010	mg/L		12/06/16 14:16	12/07/16 13:28	1
Zinc	0.105	J	0.50	0.020	mg/L		12/06/16 14:16	12/07/16 13:28	1

Lab Sample ID: LB 500-363721/1-B
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 363820

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/06/16 14:13	12/07/16 19:35	1
Manganese	<0.025		0.025	0.010	mg/L		12/06/16 14:13	12/07/16 19:35	1

Lab Sample ID: 500-120882-16 MS
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-01-B20 (0-6)
Prep Type: SPLP East
Prep Batch: 363820

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Manganese	0.44		0.500	1.04		mg/L		120	50 - 150

Lab Sample ID: 500-120882-16 DU
Matrix: Solid
Analysis Batch: 364150

Client Sample ID: 1314V3-01-B20 (0-6)
Prep Type: SPLP East
Prep Batch: 363820

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Manganese	0.44		0.426		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-363822/2-A
Matrix: Solid
Analysis Batch: 364154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363822

Analyte	Spike	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.453		mg/L		91	80 - 120
Thallium	0.100	0.0934		mg/L		93	80 - 120

Lab Sample ID: LB 500-363729/1-D
Matrix: Solid
Analysis Batch: 364154

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363822

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/06/16 14:16	12/07/16 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/06/16 14:16	12/07/16 19:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-363806/12-A
Matrix: Solid
Analysis Batch: 363991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:05	1

Lab Sample ID: LCS 500-363806/13-A
Matrix: Solid
Analysis Batch: 363991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

Lab Sample ID: LB 500-363729/1-C
Matrix: Solid
Analysis Batch: 363991

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 363806

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/06/16 13:45	12/07/16 10:08	1

Lab Sample ID: 500-120882-1 MS
Matrix: Solid
Analysis Batch: 363991

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: TCLP
Prep Batch: 363806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000921		mg/L		92	50 - 150

Lab Sample ID: 500-120882-1 DU
Matrix: Solid
Analysis Batch: 363991

Client Sample ID: 1314V3-57-B03 (0-5)
Prep Type: TCLP
Prep Batch: 363806

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-363620/12-A
Matrix: Solid
Analysis Batch: 363848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/05/16 14:30	12/06/16 14:00	1

Lab Sample ID: LCS 500-363620/13-A
Matrix: Solid
Analysis Batch: 363848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Method: 9045D - pH

Lab Sample ID: 500-120882-2 DU
Matrix: Solid
Analysis Batch: 363978

Client Sample ID: 1314V3-57-B02 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4		8.4		SU		0.4	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 19:48	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:18	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:21	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978		SMO	TAL CHI
					(Start)	12/06/16 14:47		
					(End)	12/06/16 14:51		
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-57-B03 (0-5)

Lab Sample ID: 500-120882-1

Date Collected: 12/01/16 09:25

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 13:39	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/13/16 23:58	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 16:25	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:17	MJD	TAL CHI

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 19:55	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:22	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	364154	12/07/16 19:25	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 14:51 (End) 12/06/16 14:54	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-57-B02 (0-3)

Lab Sample ID: 500-120882-2

Date Collected: 12/01/16 09:55

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 14:04	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 00:23	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 16:59	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:18	MJD	TAL CHI

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:27	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:28	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 14:58 (End) 12/06/16 15:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-57-B01 (0-3)

Lab Sample ID: 500-120882-3

Date Collected: 12/01/16 10:15

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 14:29	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 02:06	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:06	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:23	MJD	TAL CHI

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:24	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:32	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:32	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:01 (End) 12/06/16 15:05	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-56-B03 (0-3)

Lab Sample ID: 500-120882-4

Date Collected: 12/01/16 10:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 14:54	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 02:31	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:13	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:24	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:31	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:37	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:35	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:21	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:05 (End) 12/06/16 15:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-56-B02 (0-3)

Lab Sample ID: 500-120882-5

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 15:19	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 02:57	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:35	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:26	MJD	TAL CHI

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:38	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:42	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	364154	12/07/16 19:39	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:09 (End) 12/06/16 15:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-56-B02 (0-3)D

Lab Sample ID: 500-120882-6

Date Collected: 12/01/16 10:50

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 15:44	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 03:23	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:42	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:27	MJD	TAL CHI

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:44	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:46	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:42	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:12 (End) 12/06/16 15:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-56-B01 (0-3)

Lab Sample ID: 500-120882-7

Date Collected: 12/01/16 11:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 16:08	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 03:48	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:49	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:29	MJD	TAL CHI

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:51	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:51	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:45	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:16 (End) 12/06/16 15:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-59-B01 (0-5)

Lab Sample ID: 500-120882-8

Date Collected: 12/01/16 11:30

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 11:59	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 04:14	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 17:55	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:30	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 20:58	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 14:56	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:56	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:19 (End) 12/06/16 15:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-59-B01 (5-10)

Lab Sample ID: 500-120882-9

Date Collected: 12/01/16 11:35

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 16:58	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 04:40	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:02	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:32	MJD	TAL CHI

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:01	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 19:59	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	363991	12/07/16 10:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:23 (End) 12/06/16 15:27	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-32-B08 (0-3)

Lab Sample ID: 500-120882-10

Date Collected: 12/01/16 12:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 17:23	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 05:05	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:09	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		50	363848	12/06/16 15:46	MJD	TAL CHI

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:14	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:03	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:27 (End) 12/06/16 15:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-32-B07 (0-3)

Lab Sample ID: 500-120882-11

Date Collected: 12/01/16 12:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 17:49	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 05:31	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:16	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:35	MJD	TAL CHI

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 21:18	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:19	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:06	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978		SMO	TAL CHI
					(Start)	12/06/16 15:30		
					(End)	12/06/16 15:34		
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-26-B01 (0-8)

Lab Sample ID: 500-120882-12

Date Collected: 12/01/16 14:05

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 18:15	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 05:57	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:22	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:36	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:23	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:09	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:36	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:34 (End) 12/06/16 15:37	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-26-B02 (0-8)

Lab Sample ID: 500-120882-13

Date Collected: 12/01/16 14:40

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 18:40	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 06:22	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:29	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:41	MJD	TAL CHI

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 21:48	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:28	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:13	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	363991	12/07/16 10:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:37 (End) 12/06/16 15:41	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-01-B30 (0-6)

Lab Sample ID: 500-120882-14

Date Collected: 12/01/16 16:10

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 19:06	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 06:48	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:36	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:43	MJD	TAL CHI

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 21:54	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:33	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:16	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978	(Start) 12/06/16 15:41 (End) 12/06/16 15:45	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Client Sample ID: 1314V3-01-B31 (0-6)

Lab Sample ID: 500-120882-15

Date Collected: 12/01/16 16:20

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 19:31	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 07:13	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 18:59	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:44	MJD	TAL CHI

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			363721	12/05/16 13:12	RMP	TAL CHI
SPLP East	Prep	3010A			363820	12/06/16 14:13	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364150	12/07/16 22:01	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	364126	12/07/16 15:38	PJ1	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	3010A			363822	12/06/16 14:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	364154	12/07/16 20:20	FXG	TAL CHI
TCLP	Leach	1311			363729	12/05/16 16:07	RMP	TAL CHI
TCLP	Prep	7470A			363806	12/06/16 13:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	363991	12/07/16 10:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	363978		SMO	TAL CHI
					(Start)	12/06/16 15:45		
					(End)	12/06/16 15:48		
Total/NA	Analysis	Moisture		1	363399	12/02/16 15:02	LWN	TAL CHI

Client Sample ID: 1314V3-01-B20 (0-6)

Lab Sample ID: 500-120882-16

Date Collected: 12/01/16 16:45

Matrix: Solid

Date Received: 12/02/16 10:10

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363513	12/02/16 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363745	12/06/16 19:55	DJD	TAL CHI
Total/NA	Prep	3541			364505	12/10/16 09:29	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364962	12/14/16 07:39	GES	TAL CHI
Total/NA	Prep	3050B			363940	12/07/16 08:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364150	12/07/16 19:05	PJ1	TAL CHI
Total/NA	Prep	7471B			363620	12/05/16 14:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	363848	12/06/16 14:46	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-120882-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6041
Phone: 708.534.5200 Fax: 708.534.5201



500-120882 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120882
Chain of Custody Number: E846-11
Page _____ of _____
Temperature °C of Cooler: 210.33

Client <u>EE</u>		Client Project # <u>1009008-0046-01</u>		Preservative		Parameter										Preservative Key		
Project Name <u>F74</u>		Project Location/State <u>Rock Island County, IL</u>		Lab Project # <u>SU012744</u>		Lab PM <u>D Wright</u>										1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total PAH metals	TC/PLS/SP PAH metals	Pb/Cd/Se/112						Comments	
			Date	Time														
1		1314V3-57-B03(0-5)	12-17-16	0925	2 S		X	X	X	X	X							64600
2		1314V3-57-B02(0-3)	12-17-16	0955	2 S		X	X	X	X	X							
3		1314V3-57-B01(0-3)	12-17-16	1015	2 S		X	X	X	X	X							
 <div style="display: flex; justify-content: space-between; align-items: center;"> 6 12-1-16 </div> 																		

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-17-16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHT</u>	Date: <u>12/2/16</u>	Time: <u>1010</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>Fed-X</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120882
Chain of Custody Number: EGY6-12
Page _____ of _____
Temperature °C of Cooler: _____

Client <u>EE</u>		Client Project # <u>1009008-0046</u>		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name <u>ET4</u>		Project Location/State <u>Rock Island County, IL</u>		Parameter										
Lab Project # <u>S0012744</u>		Lab PM <u>D. Wright</u>												
Sampler <u>S. Cooper</u>														
Lab ID	MS/MSD	Sample ID	Sampling Date Time		# of Containers	Matrix	Voc	Svoc	Estl Air	metals	Temp/Spup	For Metals	pH/% Solids	Comments
<u>4</u>		<u>1314V3-56-B03(0-3)</u>	<u>12-1-16</u>	<u>1035</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>5</u>		<u>1314V3-56-B02(0-3)</u>	<u>12-1-16</u>	<u>1050</u>	<u>2</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>6</u>		<u>1314V3-56-B02(0-3)D</u>	<u>12-1-16</u>	<u>1050</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>7</u>		<u>1314V3-56-B01(0-3)</u>	<u>12-1-16</u>	<u>1105</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>EE</u>	Date <u>12-1-16</u>	Time <u>1730</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>12/2/16</u>	Time <u>1010</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: Fed-Ex
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

Lab Comments:

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 Address: _____
 Phone: _____
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 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-1208P2

Chain of Custody Number: 6046-13

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
EE		1009008-0046-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Date		Time		Matrix		
I 74		50012744										
Project Location/State		Lab PM		Matrix		Date		Time		Matrix		
Rock Island County, IL		D. Wright		VOC								
Sampler		Sample ID		Date		Time		Matrix		Comments		
S. Cooper												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
8		1314V3-59-B01 (0-5)	12-1-16	1130	2 S		X	X	X	X	X	64608
9		1314V7-59-B01 (5-10)	12-1-16	1135	2 S		X	X	X	X	X	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company EE	Date 12-1-16	Time 1731	Received By <i>[Signature]</i>	Company TA-CRT	Date 12/2/16	Time 1010	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <i>[Signature]</i>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

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2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-120882
Chain of Custody Number: EA46-14
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Project Location/State		Lab Project #		Parameter							
Sampler		Lab PM											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix							Comments
			Date	Time									
10		1314V7-32-B308(0-3)	1216	1205	25		VOC						64608
11		1314V3-32-B07(0-3)	1216	1220	25		SUCC						
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p><i>[Handwritten signature]</i> 12-1-16</p> </div>													

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>SJ</u>	Company: <u>VE</u>	Date: <u>12-1-16</u>	Time: <u>1730</u>	Received By: <u>Andrew Scott</u>	Company: <u>TA-CHE</u>	Date: <u>12/2/16</u>	Time: <u>1010</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

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Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-120882

Chain of Custody Number: E946-18

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Matrix		VOC	SVOC	Total Metals	Trace Metals	pH/Alkalinity	
Project Location/State		Lab PM		# of Containers	Matrix						
Sampler		Sampling									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments
12		1314 V3-26-B01 (0-8)	12-1-16	1405	25		X	X	X	X	
13		1314 V3-26-B02 (0-8)	12-1-16	1440	25		X	X	X	X	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>CE</u>	Date: <u>12-1-16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>JA CHE</u>	Date: <u>12/2/16</u>	Time: <u>10/10</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>Fed-X</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____

Lab Comments: _____

TestAmerica

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 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-120882
 Chain of Custody Number: E84616
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sampler		Lab Project #		Lab PM		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Project Location/State		Matrix		Matrix		Date		Time		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	
EE		1004008-0036-01												
ITM		Rock Island County, IL												
S. Lopez		D. Wright												
14		1314V3-01-B30(0-6)	12-1-16	1610	25	X	X	X	X	X				
15		1314V3-01-B31(0-6)	12-1-16	1620	25	X	X	X	X	X				
16		1314V3-01-B32(0-6)	12-1-16	1645	25	X	X	X	X	X				
<i>By 12-1-16</i>														

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <i>[Signature]</i>	Company: FE	Date: 12-1-16	Time: 1730	Received By: <i>[Signature]</i>	Company: TA-CRT	Date: 12/2/16	Time: 1010	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <i>Red X</i>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
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 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-120882-1

Login Number: 120882

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6.3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121005-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/19/2016 3:27:16 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



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QC Sample Results	88
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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Job ID: 500-121005-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121005-1

Comments

No additional comments.

Receipt

The samples were received on 12/6/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 4.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits. The sample was run a second time with concurring results. Results with the highest ISTD recovery have been reported 1314V3-60-B04 (0-5) (500-121005-7).

Method(s) 8270D: The following samples contained one acid surrogate outside acceptance limits: 1314V3-60-B06 (0-6) (500-121005-3), 1314V3-60-B03 (4-9) (500-121005-9), (500-121005-E-3-I MS) and (500-121005-E-3-J MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121005-E-3-I MS) and (500-121005-E-3-J MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: The internal standard Terbium(Tb) was used to report the element Thallium (Tl), in batch 364634, because the icp digestion spike was used for the prep of the samples. The icp digestion spike contains the element Bismuth (Bi) in the spike.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	3000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.2	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	7.7		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	9100		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	180		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	530		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	41	J	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.042		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	5000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4700		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	850		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11) (Continued)

Lab Sample ID: 500-121005-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.029		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.094		0.072	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0049	J	0.036	0.0047	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.25		0.036	0.0064	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.19		0.18	0.042	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.26		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	2.5	F1	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.65	F1	0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.43		0.18	0.089	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.2	F1	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.2	F1	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.1	F1	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.5	F1	0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.50		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.97	F1	0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.34	F1	0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12	F1	0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.32	F1	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene - DL	3.1		0.18	0.033	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.62	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	1.7		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	57		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.26		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	9.1		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	220000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	9.8	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	6600		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6400		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	680		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.014	J	0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	11.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.44		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	9500		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7400		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	820		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	900		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.072		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.032		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0059	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.2		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	3300		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	9.5		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (0-6) (Continued)

Lab Sample ID: 500-121005-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	300		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	750		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.034		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.064		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.051		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.020	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.041	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.057		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.037	J	0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.9		0.62	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	3600		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	770		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		62	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.029		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5) (Continued)

Lab Sample ID: 500-121005-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.052		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0084	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.079		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.092		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.036	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.045		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.054		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0090	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	9.1		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.068	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.5		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	3700		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4) (Continued)

Lab Sample ID: 500-121005-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	10		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	670		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	43	J	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.092	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.031		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	9.4		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	42	J	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Mercury	0.022		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.085		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.041	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7) (Continued)

Lab Sample ID: 500-121005-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.24		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.081		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.091		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.027	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.44		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000		120	40	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	72		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	63		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.068	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.082	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.076		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	68		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.42		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.3	J	2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	3400		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	9.0		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8) (Continued)

Lab Sample ID: 500-121005-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	10000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1900		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	220		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	540		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.029		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.1	J	2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	8.4		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	7.5		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8500		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.050		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (0-7) (Continued)

Lab Sample ID: 500-121005-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.093		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.091		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.050		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.079		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.055		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0075	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	68		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.1		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	33		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	670		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	620		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.069	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.070		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.056		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0068	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.078		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.036	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.039		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14) (Continued)

Lab Sample ID: 500-121005-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.030	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	3.3		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	10	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	9.6		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.8		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	720		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J F1	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.0	F1 F2	0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J F1	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8	F1 F2	0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.1		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17	F1 F2	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	750	F1	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J F1	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20) (Continued)

Lab Sample ID: 500-121005-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	76		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.7		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121005-1	1314V3-60-B01 (0-6)	Solid	12/05/16 12:40	12/06/16 10:30
500-121005-2	1314V3-60-B01 (6-11)	Solid	12/05/16 12:45	12/06/16 10:30
500-121005-3	1314V3-60-B06 (0-6)	Solid	12/05/16 13:05	12/06/16 10:30
500-121005-4	1314V3-60-B06 (6-12)	Solid	12/05/16 13:10	12/06/16 10:30
500-121005-5	1314V3-60-B05 (0-6)	Solid	12/05/16 13:35	12/06/16 10:30
500-121005-6	1314V3-60-B05 (6-12)	Solid	12/05/16 13:40	12/06/16 10:30
500-121005-7	1314V3-60-B04 (0-5)	Solid	12/05/16 13:55	12/06/16 10:30
500-121005-8	1314V3-60-B03 (0-4)	Solid	12/05/16 14:10	12/06/16 10:30
500-121005-9	1314V3-60-B03 (4-9)	Solid	12/05/16 14:15	12/06/16 10:30
500-121005-10	1314V3-60-B02 (0-7)	Solid	12/05/16 14:30	12/06/16 10:30
500-121005-11	1314V3-01-B11 (0-8)	Solid	12/05/16 15:05	12/06/16 10:30
500-121005-12	1314V3-01-B11 (8-15)	Solid	12/05/16 15:15	12/06/16 10:30
500-121005-13	1314V3-01-B34 (0-7)	Solid	12/05/16 16:15	12/06/16 10:30
500-121005-14	1314V3-01-B34 (7-14)	Solid	12/05/16 16:20	12/06/16 10:30
500-121005-15	1314V3-01-B34 (14-20)	Solid	12/05/16 16:24	12/06/16 10:30

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/06/16 13:50	12/07/16 14:30	1
Dibromofluoromethane	103		75 - 120	12/06/16 13:50	12/07/16 14:30	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/06/16 13:50	12/07/16 14:30	1
Toluene-d8 (Surr)	101		75 - 123	12/06/16 13:50	12/07/16 14:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/12/16 09:38	12/13/16 19:47	1
Phenol-d5	93		36 - 123	12/12/16 09:38	12/13/16 19:47	1
Nitrobenzene-d5	88		33 - 124	12/12/16 09:38	12/13/16 19:47	1
2-Fluorobiphenyl	87		42 - 115	12/12/16 09:38	12/13/16 19:47	1
2,4,6-Tribromophenol	86		25 - 130	12/12/16 09:38	12/13/16 19:47	1
Terphenyl-d14	101		25 - 150	12/12/16 09:38	12/13/16 19:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Arsenic	2.7		0.58	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Barium	49		0.58	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Beryllium	0.36		0.23	0.051	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Boron	1.7 J		2.9	0.41	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Cadmium	0.18		0.12	0.034	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Calcium	3000		12	3.8	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Chromium	9.2 B		0.58	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Cobalt	4.5		0.29	0.066	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Copper	7.7		0.58	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Iron	9100		12	4.5	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Lead	23		0.29	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Magnesium	1500		5.8	2.4	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Manganese	180		0.58	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Nickel	10		0.58	0.16	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Potassium	530		29	4.8	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Selenium	0.48 J		0.58	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Sodium	41 J		58	7.7	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Vanadium	12		0.29	0.085	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1
Zinc	38		1.2	0.37	mg/Kg	☼	12/08/16 15:09	12/09/16 13:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:18	1
Boron	0.11 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Iron	0.27	J	0.40	0.20	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Manganese	0.042		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Silver	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:18	1
Zinc	0.022	J	0.50	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/08/16 14:21	12/09/16 16:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/08/16 14:21	12/09/16 16:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/08/16 12:45	12/09/16 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0095	mg/Kg	☼	12/07/16 14:45	12/08/16 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		12/09/16 18:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/06/16 13:50	12/07/16 14:55	1
Dibromofluoromethane	99		75 - 120	12/06/16 13:50	12/07/16 14:55	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/06/16 13:50	12/07/16 14:55	1
Toluene-d8 (Surr)	101		75 - 123	12/06/16 13:50	12/07/16 14:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.091	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/12/16 09:38	12/13/16 20:16	1
Phenol-d5	89		36 - 123	12/12/16 09:38	12/13/16 20:16	1
Nitrobenzene-d5	84		33 - 124	12/12/16 09:38	12/13/16 20:16	1
2-Fluorobiphenyl	83		42 - 115	12/12/16 09:38	12/13/16 20:16	1
2,4,6-Tribromophenol	93		25 - 130	12/12/16 09:38	12/13/16 20:16	1
Terphenyl-d14	101		25 - 150	12/12/16 09:38	12/13/16 20:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Arsenic	3.8		0.60	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Barium	86		0.60	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Beryllium	0.55		0.24	0.052	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Boron	2.0	J	3.0	0.42	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Cadmium	0.20		0.12	0.035	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Calcium	5000		12	3.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Chromium	16	B	0.60	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Cobalt	7.6		0.30	0.068	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Copper	13		0.60	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Iron	14000		12	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Lead	8.6		0.30	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Magnesium	4700		6.0	2.4	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Manganese	330		0.60	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Nickel	19		0.60	0.16	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Potassium	850		30	4.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Selenium	0.33	J	0.60	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Sodium	120		60	7.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Vanadium	19		0.30	0.088	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1
Zinc	45		1.2	0.38	mg/Kg	☼	12/08/16 15:09	12/09/16 13:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:25	1
Boron	0.11	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Iron	<0.40		0.40	0.20	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Manganese	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Silver	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:25	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/08/16 14:21	12/09/16 16:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/08/16 14:21	12/09/16 16:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/08/16 12:45	12/09/16 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	✱	12/07/16 14:45	12/08/16 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		12/09/16 19:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0066	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1
Xylenes, Total	<0.0030		0.0030	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/06/16 13:50	12/07/16 15:20	1
Dibromofluoromethane	98		75 - 120	12/06/16 13:50	12/07/16 15:20	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/06/16 13:50	12/07/16 15:20	1
Toluene-d8 (Surr)	104		75 - 123	12/06/16 13:50	12/07/16 15:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Bis(2-chloroethyl)ether	<0.18	F1 F2	0.18	0.054	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Hexachloroethane	<0.18	F1	0.18	0.054	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Chlorophenol	<0.18	F1	0.18	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4-Dichlorophenol	<0.36	F1	0.36	0.085	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4,6-Trichlorophenol	<0.36	F1	0.36	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4,5-Trichlorophenol	<0.36	F1	0.36	0.082	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Hexachlorocyclopentadiene	<0.72	F1	0.72	0.21	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Methylnaphthalene	0.094		0.072	0.0066	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2-Nitrophenol	<0.36	F1	0.36	0.084	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4-Dinitrophenol	<0.72	F1	0.72	0.63	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Acenaphthylene	0.0049	J	0.036	0.0047	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Acenaphthene	0.25		0.036	0.0064	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Dibenzofuran	0.19		0.18	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Fluorene	0.26		0.036	0.0050	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Pentachlorophenol	<0.72	F1	0.72	0.57	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
4,6-Dinitro-2-methylphenol	<0.72	F1	0.72	0.29	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Phenanthrene	2.5	F1	0.036	0.0050	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Anthracene	0.65	F1	0.036	0.0060	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Carbazole	0.43		0.18	0.089	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Pyrene	2.2	F1	0.036	0.0071	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Benzo[a]anthracene	1.2	F1	0.036	0.0048	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Chrysene	1.1	F1	0.036	0.0098	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Benzo[b]fluoranthene	1.5	F1	0.036	0.0077	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Benzo[k]fluoranthene	0.50		0.036	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Benzo[a]pyrene	0.97	F1	0.036	0.0069	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Indeno[1,2,3-cd]pyrene	0.34	F1	0.036	0.0093	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Dibenz(a,h)anthracene	0.12	F1	0.036	0.0069	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
Benzo[g,h,i]perylene	0.32	F1	0.036	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	20	X	40 - 130	12/12/16 09:38	12/14/16 03:03	1
Phenol-d5	79		36 - 123	12/12/16 09:38	12/14/16 03:03	1
Nitrobenzene-d5	70		33 - 124	12/12/16 09:38	12/14/16 03:03	1
2-Fluorobiphenyl	75		42 - 115	12/12/16 09:38	12/14/16 03:03	1
2,4,6-Tribromophenol	32		25 - 130	12/12/16 09:38	12/14/16 03:03	1
Terphenyl-d14	91		25 - 150	12/12/16 09:38	12/14/16 03:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3.1		0.18	0.033	mg/Kg	☼	12/12/16 09:38	12/14/16 16:27	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.23	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Arsenic	1.7		0.55	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Barium	57		0.55	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Beryllium	0.26		0.22	0.048	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Boron	9.1		2.8	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Cadmium	0.17		0.11	0.032	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Calcium	220000		110	36	mg/Kg	☼	12/08/16 15:09	12/09/16 23:18	10
Chromium	9.8	B	0.55	0.095	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Cobalt	4.6		0.28	0.062	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Copper	8.8		0.55	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Iron	6600		11	4.3	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Lead	22		0.28	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Magnesium	6400		5.5	2.2	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Manganese	680		0.55	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Nickel	11		0.55	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Potassium	450		28	4.5	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Selenium	0.63		0.55	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Sodium	170		55	7.3	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Vanadium	12		0.28	0.081	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1
Zinc	34		1.1	0.35	mg/Kg	☼	12/08/16 15:09	12/09/16 13:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 88.3

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:31	1
Boron	0.15	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 17:31	1
Chromium	0.015	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:31	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 17:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 17:31	1
Manganese	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:31	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 17:31	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:31	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 17:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 16:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0088	mg/Kg	✱	12/07/16 14:45	12/08/16 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.8		0.2	0.2	SU			12/09/16 19:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/06/16 13:50	12/07/16 15:44	1
Dibromofluoromethane	98		75 - 120	12/06/16 13:50	12/07/16 15:44	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/06/16 13:50	12/07/16 15:44	1
Toluene-d8 (Surr)	102		75 - 123	12/06/16 13:50	12/07/16 15:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/12/16 09:38	12/13/16 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/12/16 09:38	12/13/16 20:45	1
Phenol-d5	82		36 - 123	12/12/16 09:38	12/13/16 20:45	1
Nitrobenzene-d5	78		33 - 124	12/12/16 09:38	12/13/16 20:45	1
2-Fluorobiphenyl	77		42 - 115	12/12/16 09:38	12/13/16 20:45	1
2,4,6-Tribromophenol	88		25 - 130	12/12/16 09:38	12/13/16 20:45	1
Terphenyl-d14	95		25 - 150	12/12/16 09:38	12/13/16 20:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Arsenic	7.0		0.61	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Barium	120		0.61	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Beryllium	0.56		0.25	0.053	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Boron	2.5 J		3.1	0.43	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Cadmium	0.44		0.12	0.036	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Calcium	9500		12	4.0	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Chromium	16 B		0.61	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Cobalt	11		0.31	0.069	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Copper	14		0.61	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Iron	18000		12	4.7	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Lead	10		0.31	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Magnesium	7400		6.1	2.5	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Manganese	820		0.61	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Nickel	31		0.61	0.17	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Potassium	900		31	5.0	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Selenium	0.43 J		0.61	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Sodium	180		61	8.1	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Vanadium	25		0.31	0.090	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1
Zinc	49		1.2	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 13:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:38	1
Boron	0.070 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Iron	<0.40		0.40	0.20	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Manganese	0.072		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Silver	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 17:38	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/08/16 14:21	12/10/16 17:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/08/16 14:21	12/09/16 16:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/08/16 14:21	12/09/16 16:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/08/16 12:45	12/09/16 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0096	mg/Kg	☼	12/07/16 14:45	12/08/16 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU	-		12/09/16 19:10	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/06/16 13:50	12/07/16 16:09	1
Dibromofluoromethane	98		75 - 120	12/06/16 13:50	12/07/16 16:09	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/06/16 13:50	12/07/16 16:09	1
Toluene-d8 (Surr)	104		75 - 123	12/06/16 13:50	12/07/16 16:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Phenanthrene	0.0059	J	0.040	0.0056	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Fluoranthene	0.027	J	0.040	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Pyrene	0.023	J	0.040	0.0080	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Benzo[a]anthracene	0.011	J	0.040	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.040	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Benzo[b]fluoranthene	0.028	J	0.040	0.0087	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Benzo[k]fluoranthene	0.013	J	0.040	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Benzo[a]pyrene	0.016	J	0.040	0.0078	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.040	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
Benzo[g,h,i]perylene	0.019	J	0.040	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/12/16 09:38	12/13/16 21:14	1
Phenol-d5	82		36 - 123	12/12/16 09:38	12/13/16 21:14	1
Nitrobenzene-d5	75		33 - 124	12/12/16 09:38	12/13/16 21:14	1
2-Fluorobiphenyl	75		42 - 115	12/12/16 09:38	12/13/16 21:14	1
2,4,6-Tribromophenol	79		25 - 130	12/12/16 09:38	12/13/16 21:14	1
Terphenyl-d14	92		25 - 150	12/12/16 09:38	12/13/16 21:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Arsenic	2.2		0.60	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Barium	70		0.60	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Beryllium	0.48		0.24	0.052	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Boron	1.6	J	3.0	0.42	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Cadmium	0.24		0.12	0.035	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Calcium	3300		12	3.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Chromium	11	B	0.60	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Cobalt	7.0		0.30	0.068	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Copper	9.5		0.60	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Iron	11000		12	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Lead	13		0.30	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Magnesium	1800		6.0	2.4	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Manganese	300		0.60	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Nickel	15		0.60	0.16	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Potassium	750		30	4.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Selenium	0.32	J	0.60	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Sodium	120		60	7.9	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Vanadium	12		0.30	0.088	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1
Zinc	46		1.2	0.38	mg/Kg	☼	12/08/16 15:09	12/09/16 13:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:45	1
Boron	0.065	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 17:45	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:45	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:45	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 17:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 17:45	1
Manganese	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:45	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 17:45	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:45	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 17:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 16:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 16:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.021	0.011	mg/Kg	✱	12/07/16 14:45	12/08/16 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/09/16 19:14	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/06/16 13:50	12/07/16 16:34	1
Dibromofluoromethane	99		75 - 120	12/06/16 13:50	12/07/16 16:34	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/06/16 13:50	12/07/16 16:34	1
Toluene-d8 (Surr)	104		75 - 123	12/06/16 13:50	12/07/16 16:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Phenanthrene	0.012	J	0.042	0.0059	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Fluoranthene	0.064		0.042	0.0078	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Pyrene	0.051		0.042	0.0084	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Benzo[a]anthracene	0.020	J	0.042	0.0057	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.041	J	0.042	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Benzo[b]fluoranthene	0.057		0.042	0.0091	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Benzo[k]fluoranthene	0.023	J	0.042	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Benzo[a]pyrene	0.032	J	0.042	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.042	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
Benzo[g,h,i]perylene	0.037	J	0.042	0.014	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/12/16 09:38	12/13/16 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/12/16 09:38	12/13/16 21:43	1
Phenol-d5	87		36 - 123	12/12/16 09:38	12/13/16 21:43	1
Nitrobenzene-d5	75		33 - 124	12/12/16 09:38	12/13/16 21:43	1
2-Fluorobiphenyl	75		42 - 115	12/12/16 09:38	12/13/16 21:43	1
2,4,6-Tribromophenol	64		25 - 130	12/12/16 09:38	12/13/16 21:43	1
Terphenyl-d14	94		25 - 150	12/12/16 09:38	12/13/16 21:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Arsenic	2.9		0.62	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Barium	72		0.62	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Beryllium	0.50		0.25	0.053	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Boron	1.8	J	3.1	0.43	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Cadmium	0.21		0.12	0.036	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Calcium	3600		12	4.0	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Chromium	13	B	0.62	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Cobalt	7.0		0.31	0.070	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Copper	10		0.62	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Iron	13000		12	4.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Lead	10		0.31	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Magnesium	2700		6.2	2.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Manganese	280		0.62	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Nickel	15		0.62	0.17	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Potassium	770		31	5.0	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Selenium	<0.62		0.62	0.31	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Sodium	130		62	8.1	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Thallium	<0.62		0.62	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Vanadium	16		0.31	0.090	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1
Zinc	43		1.2	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 14:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:07	1
Boron	0.060	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Iron	<0.40		0.40	0.20	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Manganese	0.042		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Silver	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:07	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/08/16 14:21	12/10/16 18:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/08/16 14:21	12/09/16 16:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/08/16 14:21	12/09/16 16:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/08/16 12:45	12/09/16 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.010	mg/Kg	☼	12/07/16 14:45	12/08/16 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU	-		12/09/16 19:17	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/06/16 13:50	12/07/16 16:59	1
Dibromofluoromethane	100		75 - 120	12/06/16 13:50	12/07/16 16:59	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/06/16 13:50	12/07/16 16:59	1
Toluene-d8 (Surr)	103		75 - 123	12/06/16 13:50	12/07/16 16:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Phenanthrene	0.052		0.039	0.0055	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Anthracene	0.0084	J	0.039	0.0065	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Fluoranthene	0.079		0.039	0.0073	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Pyrene	0.092		0.039	0.0078	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Benzo[a]anthracene	0.036	J	0.039	0.0053	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.039	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Benzo[b]fluoranthene	0.054		0.039	0.0085	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Benzo[a]pyrene	0.043		0.039	0.0076	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Dibenz(a,h)anthracene	0.0090	J	0.039	0.0076	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/12/16 09:38	12/14/16 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		40 - 130				12/12/16 09:38	12/14/16 03:32	1
Phenol-d5	88		36 - 123				12/12/16 09:38	12/14/16 03:32	1
Nitrobenzene-d5	76		33 - 124				12/12/16 09:38	12/14/16 03:32	1
2-Fluorobiphenyl	81		42 - 115				12/12/16 09:38	12/14/16 03:32	1
2,4,6-Tribromophenol	99		25 - 130				12/12/16 09:38	12/14/16 03:32	1
Terphenyl-d14	128		25 - 150				12/12/16 09:38	12/14/16 03:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Arsenic	3.1		0.57	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Barium	75		0.57	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Beryllium	0.44		0.23	0.050	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Boron	1.8	J	2.9	0.40	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Cadmium	0.26		0.11	0.033	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Calcium	18000		11	3.7	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Chromium	12	B	0.57	0.098	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Cobalt	6.1		0.29	0.065	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Copper	9.1		0.57	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Iron	11000		11	4.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Lead	26		0.29	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Magnesium	7000		5.7	2.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Manganese	380		0.57	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Nickel	14		0.57	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Potassium	550		29	4.7	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Selenium	0.47	J	0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Sodium	290		57	7.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Vanadium	16		0.29	0.083	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1
Zinc	45		1.1	0.36	mg/Kg	☼	12/08/16 15:09	12/09/16 14:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:14	1
Boron	0.068	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:14	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:14	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:14	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:14	1
Manganese	1.8		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:14	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:14	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:14	1
Zinc	0.049	J	0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.49		0.025	0.010	mg/L		12/08/16 14:20	12/11/16 03:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 16:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.011	mg/Kg	☼	12/07/16 14:45	12/08/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/09/16 19:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Chlorobenzene	<0.0020		0.0020	0.00076	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00091	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Vinyl chloride	<0.0020		0.0020	0.00091	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/06/16 13:50	12/07/16 17:24	1
Dibromofluoromethane	98		75 - 120	12/06/16 13:50	12/07/16 17:24	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/06/16 13:50	12/07/16 17:24	1
Toluene-d8 (Surr)	105		75 - 123	12/06/16 13:50	12/07/16 17:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		40 - 130				12/12/16 09:38	12/13/16 22:12	1
Phenol-d5	83		36 - 123				12/12/16 09:38	12/13/16 22:12	1
Nitrobenzene-d5	79		33 - 124				12/12/16 09:38	12/13/16 22:12	1
2-Fluorobiphenyl	79		42 - 115				12/12/16 09:38	12/13/16 22:12	1
2,4,6-Tribromophenol	47		25 - 130				12/12/16 09:38	12/13/16 22:12	1
Terphenyl-d14	97		25 - 150				12/12/16 09:38	12/13/16 22:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Arsenic	2.5		0.59	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Barium	76		0.59	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Beryllium	0.45		0.24	0.051	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Boron	2.2	J	2.9	0.41	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Cadmium	0.32		0.12	0.034	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Calcium	3700		12	3.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Chromium	10	B	0.59	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Cobalt	5.4		0.29	0.066	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Copper	10		0.59	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Iron	10000		12	4.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Lead	15		0.29	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Magnesium	1500		5.9	2.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Manganese	260		0.59	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Nickel	14		0.59	0.16	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Potassium	670		29	4.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Selenium	0.59		0.59	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Sodium	43	J	59	7.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Vanadium	14		0.29	0.086	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1
Zinc	110		1.2	0.37	mg/Kg	☼	12/08/16 15:09	12/09/16 14:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:21	1
Boron	0.073	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:21	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:21	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:21	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:21	1
Manganese	0.013	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:21	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:21	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:21	1
Zinc	0.092	J	0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0098	mg/Kg	☼	12/07/16 14:45	12/08/16 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			12/09/16 19:24	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/06/16 13:50	12/07/16 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/06/16 13:50	12/07/16 17:48	1
Dibromofluoromethane	100		75 - 120	12/06/16 13:50	12/07/16 17:48	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/06/16 13:50	12/07/16 17:48	1
Toluene-d8 (Surr)	101		75 - 123	12/06/16 13:50	12/07/16 17:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/12/16 09:38	12/13/16 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		40 - 130	12/12/16 09:38	12/13/16 22:41	1
Phenol-d5	71		36 - 123	12/12/16 09:38	12/13/16 22:41	1
Nitrobenzene-d5	66		33 - 124	12/12/16 09:38	12/13/16 22:41	1
2-Fluorobiphenyl	66		42 - 115	12/12/16 09:38	12/13/16 22:41	1
2,4,6-Tribromophenol	23	X	25 - 130	12/12/16 09:38	12/13/16 22:41	1
Terphenyl-d14	84		25 - 150	12/12/16 09:38	12/13/16 22:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Arsenic	3.1		0.59	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Barium	62		0.59	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Beryllium	0.41		0.24	0.051	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Boron	1.6	J	2.9	0.41	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Calcium	2600		12	3.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Chromium	10	B	0.59	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Cobalt	5.5		0.29	0.067	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Copper	9.4		0.59	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Iron	11000		12	4.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Lead	8.6		0.29	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Magnesium	1700		5.9	2.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Manganese	160		0.59	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Nickel	11		0.59	0.16	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Potassium	650		29	4.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Sodium	42	J	59	7.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Vanadium	13		0.29	0.086	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1
Zinc	37		1.2	0.37	mg/Kg	☼	12/08/16 15:09	12/09/16 14:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:28	1
Boron	<0.50		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:28	1
Iron	0.32	J	0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:28	1
Manganese	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:28	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:28	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0097	mg/Kg	☼	12/07/16 14:45	12/08/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			12/09/16 19:28	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	12/06/16 13:50	12/07/16 18:13	1
Dibromofluoromethane	100		75 - 120	12/06/16 13:50	12/07/16 18:13	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/06/16 13:50	12/07/16 18:13	1
Toluene-d8 (Surr)	102		75 - 123	12/06/16 13:50	12/07/16 18:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Phenanthrene	0.085		0.041	0.0057	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Anthracene	0.011 J		0.041	0.0068	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Fluoranthene	0.30		0.041	0.0076	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Pyrene	0.24		0.041	0.0081	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Benzo[a]anthracene	0.11		0.041	0.0055	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.17		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Benzo[b]fluoranthene	0.23		0.041	0.0088	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Benzo[k]fluoranthene	0.081		0.041	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Benzo[a]pyrene	0.13		0.041	0.0079	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Indeno[1,2,3-cd]pyrene	0.091		0.041	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Dibenz(a,h)anthracene	0.027	J	0.041	0.0079	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Benzo[g,h,i]perylene	0.10		0.041	0.013	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/12/16 09:38	12/14/16 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130				12/12/16 09:38	12/14/16 02:05	1
Phenol-d5	82		36 - 123				12/12/16 09:38	12/14/16 02:05	1
Nitrobenzene-d5	72		33 - 124				12/12/16 09:38	12/14/16 02:05	1
2-Fluorobiphenyl	72		42 - 115				12/12/16 09:38	12/14/16 02:05	1
2,4,6-Tribromophenol	59		25 - 130				12/12/16 09:38	12/14/16 02:05	1
Terphenyl-d14	88		25 - 150				12/12/16 09:38	12/14/16 02:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Arsenic	3.6		0.62	0.29	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Barium	82		0.62	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Beryllium	0.48		0.25	0.054	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Boron	2.5	J	3.1	0.43	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Cadmium	0.44		0.12	0.036	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Calcium	54000		120	40	mg/Kg	☼	12/08/16 15:09	12/09/16 23:22	10
Chromium	11	B	0.62	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Cobalt	8.5		0.31	0.070	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Copper	11		0.62	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Iron	11000		12	4.8	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Lead	72		0.31	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Magnesium	1800		6.2	2.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Manganese	530		0.62	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Nickel	17		0.62	0.17	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Potassium	830		31	5.0	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Selenium	0.50	J	0.62	0.31	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Sodium	63		62	8.2	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Thallium	<0.62		0.62	0.30	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Vanadium	14		0.31	0.090	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1
Zinc	75		1.2	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 14:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:35	1
Boron	0.068	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:35	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:35	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:35	1
Lead	0.021		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:35	1
Manganese	0.13		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:35	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:35	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:35	1
Zinc	0.082	J	0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:35	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11		0.0075	0.0075	mg/L		12/08/16 14:20	12/11/16 03:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.020	0.011	mg/Kg	☼	12/07/16 14:45	12/08/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/09/16 19:31	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/06/16 13:50	12/07/16 18:38	1
Dibromofluoromethane	100		75 - 120	12/06/16 13:50	12/07/16 18:38	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/06/16 13:50	12/07/16 18:38	1
Toluene-d8 (Surr)	101		75 - 123	12/06/16 13:50	12/07/16 18:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		40 - 130	12/12/16 09:38	12/13/16 23:10	1
Phenol-d5	79		36 - 123	12/12/16 09:38	12/13/16 23:10	1
Nitrobenzene-d5	70		33 - 124	12/12/16 09:38	12/13/16 23:10	1
2-Fluorobiphenyl	72		42 - 115	12/12/16 09:38	12/13/16 23:10	1
2,4,6-Tribromophenol	32		25 - 130	12/12/16 09:38	12/13/16 23:10	1
Terphenyl-d14	87		25 - 150	12/12/16 09:38	12/13/16 23:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Arsenic	3.1		0.57	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Barium	68		0.57	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Beryllium	0.42		0.23	0.049	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Boron	2.3 J		2.8	0.40	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Cadmium	0.23		0.11	0.033	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Calcium	3400		11	3.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Chromium	11 B		0.57	0.097	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Cobalt	5.2		0.28	0.064	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Copper	9.0		0.57	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Iron	10000		11	4.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Lead	13		0.28	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Magnesium	1900		5.7	2.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Manganese	220		0.57	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Nickel	12		0.57	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Potassium	610		28	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Selenium	0.34 J		0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Sodium	540		57	7.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Vanadium	14		0.28	0.083	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1
Zinc	41		1.1	0.36	mg/Kg	☼	12/08/16 15:09	12/09/16 14:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:41	1
Boron	0.082 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:41	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:41	1
Manganese	0.014	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:41	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:41	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0092	mg/Kg	☼	12/07/16 14:45	12/08/16 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			12/09/16 19:35	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/06/16 13:50	12/07/16 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	12/06/16 13:50	12/07/16 19:02	1
Dibromofluoromethane	100		75 - 120	12/06/16 13:50	12/07/16 19:02	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/06/16 13:50	12/07/16 19:02	1
Toluene-d8 (Surr)	103		75 - 123	12/06/16 13:50	12/07/16 19:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/12/16 09:38	12/13/16 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		40 - 130	12/12/16 09:38	12/13/16 23:39	1
Phenol-d5	82		36 - 123	12/12/16 09:38	12/13/16 23:39	1
Nitrobenzene-d5	76		33 - 124	12/12/16 09:38	12/13/16 23:39	1
2-Fluorobiphenyl	76		42 - 115	12/12/16 09:38	12/13/16 23:39	1
2,4,6-Tribromophenol	39		25 - 130	12/12/16 09:38	12/13/16 23:39	1
Terphenyl-d14	94		25 - 150	12/12/16 09:38	12/13/16 23:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Arsenic	3.7		0.57	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Barium	58		0.57	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Beryllium	0.38		0.23	0.049	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Boron	2.1 J		2.8	0.40	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Calcium	13000		11	3.7	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Chromium	11 B		0.57	0.098	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Cobalt	5.2		0.28	0.064	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Copper	8.4		0.57	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Iron	11000		11	4.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Lead	7.5		0.28	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Magnesium	8500		5.7	2.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Manganese	210		0.57	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Nickel	13		0.57	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Potassium	550		28	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Sodium	840		57	7.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Vanadium	18		0.28	0.083	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1
Zinc	38		1.1	0.36	mg/Kg	☼	12/08/16 15:09	12/09/16 14:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:48	1
Boron	0.063 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 18:48	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:48	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 18:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 18:48	1
Manganese	0.73		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:48	1
Nickel	0.011	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:48	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 18:48	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 18:48	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 18:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L		12/08/16 14:20	12/11/16 04:05	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0095	mg/Kg	☼	12/07/16 14:45	12/08/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/09/16 19:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/06/16 13:50	12/07/16 19:27	1
Dibromofluoromethane	103		75 - 120	12/06/16 13:50	12/07/16 19:27	1
1,2-Dichloroethane-d4 (Surr)	113		69 - 134	12/06/16 13:50	12/07/16 19:27	1
Toluene-d8 (Surr)	99		75 - 123	12/06/16 13:50	12/07/16 19:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Phenanthrene	0.050		0.037	0.0052	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Anthracene	0.011 J		0.037	0.0063	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Fluoranthene	0.093		0.037	0.0070	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Pyrene	0.091		0.037	0.0074	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Benzo[a]anthracene	0.050		0.037	0.0050	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.056		0.037	0.010	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Benzo[b]fluoranthene	0.079		0.037	0.0081	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Benzo[k]fluoranthene	0.033	J	0.037	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Benzo[a]pyrene	0.055		0.037	0.0073	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.037	0.0097	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Dibenz(a,h)anthracene	0.0075	J	0.037	0.0072	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Benzo[g,h,i]perylene	0.028	J	0.037	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/12/16 09:38	12/14/16 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		40 - 130				12/12/16 09:38	12/14/16 02:34	1
Phenol-d5	88		36 - 123				12/12/16 09:38	12/14/16 02:34	1
Nitrobenzene-d5	77		33 - 124				12/12/16 09:38	12/14/16 02:34	1
2-Fluorobiphenyl	75		42 - 115				12/12/16 09:38	12/14/16 02:34	1
2,4,6-Tribromophenol	70		25 - 130				12/12/16 09:38	12/14/16 02:34	1
Terphenyl-d14	97		25 - 150				12/12/16 09:38	12/14/16 02:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Arsenic	4.8		0.54	0.25	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Barium	68		0.54	0.099	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Beryllium	0.43		0.22	0.047	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Boron	3.7		2.7	0.38	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Cadmium	0.27		0.11	0.031	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Calcium	26000		11	3.5	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Chromium	10	B	0.54	0.093	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Cobalt	7.1		0.27	0.061	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Copper	33		0.54	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Iron	12000		11	4.2	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Lead	37		0.27	0.13	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Magnesium	11000		5.4	2.2	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Manganese	330		0.54	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Nickel	16		0.54	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Potassium	670		27	4.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Selenium	0.68		0.54	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Sodium	620		54	7.1	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Vanadium	18		0.27	0.079	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1
Zinc	60		1.1	0.34	mg/Kg	☼	12/08/16 15:09	12/09/16 14:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 18:55	1
Boron	0.082	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Iron	<0.40		0.40	0.20	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Manganese	3.7		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Nickel	0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Silver	<0.025		0.025	0.010	mg/L	-	12/08/16 14:21	12/10/16 18:55	1
Zinc	0.069	J	0.50	0.020	mg/L	-	12/08/16 14:21	12/10/16 18:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L	-	12/08/16 14:20	12/11/16 04:12	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/08/16 14:21	12/09/16 17:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/08/16 14:21	12/09/16 17:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/08/16 12:45	12/09/16 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.018	0.0093	mg/Kg	☼	12/07/16 14:45	12/08/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/09/16 19:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0063	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Benzene	<0.0014		0.0014	0.00037	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Bromoform	<0.0014		0.0014	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Carbon disulfide	<0.0036		0.0036	0.00075	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Carbon tetrachloride	<0.0014		0.0014	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Chlorobenzene	<0.0014		0.0014	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Chloroform	<0.0014		0.0014	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Chloromethane	<0.0036		0.0036	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Dibromochloromethane	<0.0014		0.0014	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,1-Dichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,1-Dichloroethene	<0.0014		0.0014	0.00050	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Ethylbenzene	<0.0014		0.0014	0.00069	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Styrene	<0.0014		0.0014	0.00044	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Tetrachloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00051	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00062	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Trichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Vinyl acetate	<0.0036		0.0036	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Vinyl chloride	<0.0014		0.0014	0.00064	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1
Xylenes, Total	<0.0029		0.0029	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/06/16 13:50	12/07/16 19:52	1
Dibromofluoromethane	103		75 - 120	12/06/16 13:50	12/07/16 19:52	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/06/16 13:50	12/07/16 19:52	1
Toluene-d8 (Surr)	102		75 - 123	12/06/16 13:50	12/07/16 19:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Phenanthrene	0.056		0.038	0.0053	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Anthracene	0.0068 J		0.038	0.0063	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Fluoranthene	0.10		0.038	0.0070	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Pyrene	0.078		0.038	0.0076	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Benzo[a]anthracene	0.036 J		0.038	0.0051	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.039		0.038	0.010	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Benzo[b]fluoranthene	0.043		0.038	0.0082	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Benzo[k]fluoranthene	0.015 J		0.038	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Benzo[a]pyrene	0.030 J		0.038	0.0074	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Indeno[1,2,3-cd]pyrene	0.018 J		0.038	0.0099	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
Benzo[g,h,i]perylene	0.020 J		0.038	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/12/16 09:38	12/14/16 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/12/16 09:38	12/14/16 00:08	1
Phenol-d5	98		36 - 123	12/12/16 09:38	12/14/16 00:08	1
Nitrobenzene-d5	85		33 - 124	12/12/16 09:38	12/14/16 00:08	1
2-Fluorobiphenyl	84		42 - 115	12/12/16 09:38	12/14/16 00:08	1
2,4,6-Tribromophenol	47		25 - 130	12/12/16 09:38	12/14/16 00:08	1
Terphenyl-d14	104		25 - 150	12/12/16 09:38	12/14/16 00:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Arsenic	4.0		0.56	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Barium	55		0.56	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Beryllium	0.40		0.22	0.048	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Boron	3.3		2.8	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Cadmium	0.21		0.11	0.032	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Calcium	61000		110	36	mg/Kg	☼	12/08/16 15:09	12/09/16 23:26	10
Chromium	10 B		0.56	0.096	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Cobalt	7.0		0.28	0.063	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Copper	9.6		0.56	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Iron	12000		11	4.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Lead	8.8		0.28	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Magnesium	21000		5.6	2.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Manganese	360		0.56	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Nickel	15		0.56	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Potassium	720		28	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Selenium	0.30 J		0.56	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Sodium	120		56	7.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Vanadium	16		0.28	0.081	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1
Zinc	32		1.1	0.35	mg/Kg	☼	12/08/16 15:09	12/09/16 14:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 19:02	1
Boron	0.065 J		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:02	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:02	1
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 19:02	1
Manganese	1.1		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:02	1
Nickel	0.010	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 19:02	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:02	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 19:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.21		0.025	0.010	mg/L		12/08/16 14:20	12/11/16 04:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.017	0.0089	mg/Kg	☼	12/07/16 14:45	12/08/16 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/09/16 19:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,1,1,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/06/16 13:50	12/07/16 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/06/16 13:50	12/07/16 20:16	1
Dibromofluoromethane	103		75 - 120	12/06/16 13:50	12/07/16 20:16	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/06/16 13:50	12/07/16 20:16	1
Toluene-d8 (Surr)	103		75 - 123	12/06/16 13:50	12/07/16 20:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/12/16 09:38	12/14/16 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130	12/12/16 09:38	12/14/16 00:38	1
Phenol-d5	81		36 - 123	12/12/16 09:38	12/14/16 00:38	1
Nitrobenzene-d5	71		33 - 124	12/12/16 09:38	12/14/16 00:38	1
2-Fluorobiphenyl	71		42 - 115	12/12/16 09:38	12/14/16 00:38	1
2,4,6-Tribromophenol	64		25 - 130	12/12/16 09:38	12/14/16 00:38	1
Terphenyl-d14	87		25 - 150	12/12/16 09:38	12/14/16 00:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J F1	1.1	0.23	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Arsenic	3.0	F1 F2	0.56	0.26	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Barium	48		0.56	0.10	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Beryllium	0.46		0.22	0.048	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Boron	2.5	J F1	2.8	0.39	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Cadmium	0.15		0.11	0.032	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Calcium	30000		11	3.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Chromium	11	B	0.56	0.096	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Cobalt	6.8	F1 F2	0.28	0.063	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Copper	11		0.56	0.12	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Iron	12000		11	4.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Lead	8.1		0.28	0.14	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Magnesium	15000		5.6	2.3	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Manganese	250		0.56	0.11	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Nickel	17	F1 F2	0.56	0.15	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Potassium	750	F1	28	4.6	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Selenium	0.41	J F1	0.56	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Silver	<0.28	F1	0.28	0.065	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Sodium	76		56	7.4	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Vanadium	17		0.28	0.082	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1
Zinc	32		1.1	0.35	mg/Kg	☼	12/08/16 15:09	12/09/16 14:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 19:08	1
Boron	0.051	J	0.50	0.050	mg/L		12/08/16 14:21	12/10/16 19:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 86.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:08	1
Cobalt	0.016	J	0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:08	1
Iron	2.7		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 19:08	1
Manganese	3.9		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:08	1
Nickel	0.033		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 19:08	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 19:08	1
Zinc	0.023	J	0.50	0.020	mg/L		12/08/16 14:21	12/10/16 19:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		12/08/16 14:20	12/11/16 04:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 17:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 17:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.017	0.0089	mg/Kg	☼	12/07/16 14:45	12/08/16 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/09/16 19:49	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

GC/MS VOA

Analysis Batch: 363925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	8260B	363956
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	8260B	363956
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	8260B	363956
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	8260B	363956
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	8260B	363956
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	8260B	363956
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	8260B	363956
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	8260B	363956
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	8260B	363956
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	8260B	363956
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	8260B	363956
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	8260B	363956
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	8260B	363956
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	8260B	363956
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	8260B	363956
MB 500-363925/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-363925/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-363925/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 363956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	5035	
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	5035	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	5035	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	5035	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	5035	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	5035	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	5035	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	5035	
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	5035	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	5035	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	5035	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	5035	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	5035	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	5035	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 364629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	3541	
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	3541	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	3541	
500-121005-3 - DL	1314V3-60-B06 (0-6)	Total/NA	Solid	3541	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	3541	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	3541	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	3541	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	3541	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

GC/MS Semi VOA (Continued)

Prep Batch: 364629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	3541	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	3541	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	3541	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	3541	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	3541	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	3541	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	3541	
MB 500-364629/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-364629/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121005-3 MS	1314V3-60-B06 (0-6)	Total/NA	Solid	3541	
500-121005-3 MSD	1314V3-60-B06 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 364920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	8270D	364629
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	8270D	364629
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	8270D	364629
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	8270D	364629
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	8270D	364629
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	8270D	364629
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	8270D	364629
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	8270D	364629
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	8270D	364629
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	8270D	364629
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	8270D	364629
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	8270D	364629
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	8270D	364629
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	8270D	364629
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	8270D	364629
MB 500-364629/1-A	Method Blank	Total/NA	Solid	8270D	364629
LCS 500-364629/2-A	Lab Control Sample	Total/NA	Solid	8270D	364629
500-121005-3 MS	1314V3-60-B06 (0-6)	Total/NA	Solid	8270D	364629
500-121005-3 MSD	1314V3-60-B06 (0-6)	Total/NA	Solid	8270D	364629

Analysis Batch: 365062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-3 - DL	1314V3-60-B06 (0-6)	Total/NA	Solid	8270D	364629

Metals

Leach Batch: 364005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-7	1314V3-60-B04 (0-5)	SPLP East	Solid	1312	
500-121005-10	1314V3-60-B02 (0-7)	SPLP East	Solid	1312	
500-121005-12	1314V3-01-B11 (8-15)	SPLP East	Solid	1312	
500-121005-13	1314V3-01-B34 (0-7)	SPLP East	Solid	1312	
500-121005-14	1314V3-01-B34 (7-14)	SPLP East	Solid	1312	
500-121005-15	1314V3-01-B34 (14-20)	SPLP East	Solid	1312	
LB 500-364005/1-B	Method Blank	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Metals (Continued)

Leach Batch: 364018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	1311	
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	1311	
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	1311	
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	1311	
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	1311	
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	1311	
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	1311	
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	1311	
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	1311	
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	1311	
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	1311	
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	1311	
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	1311	
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	1311	
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	1311	
LB 500-364018/1-B	Method Blank	TCLP	Solid	1311	
LB 500-364018/1-C	Method Blank	TCLP	Solid	1311	
500-121005-1 MS	1314V3-60-B01 (0-6)	TCLP	Solid	1311	
500-121005-15 MS	1314V3-01-B34 (14-20)	TCLP	Solid	1311	
500-121005-1 DU	1314V3-60-B01 (0-6)	TCLP	Solid	1311	
500-121005-15 DU	1314V3-01-B34 (14-20)	TCLP	Solid	1311	

Prep Batch: 364021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	7471B	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	7471B	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	7471B	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	7471B	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	7471B	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	7471B	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	7471B	
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	7471B	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	7471B	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	7471B	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	7471B	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	7471B	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	7471B	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	7471B	
MB 500-364021/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-364021/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121005-1 MS	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	
500-121005-1 MSD	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	
500-121005-1 DU	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 364194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	364021
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	7471B	364021
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	7471B	364021
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	7471B	364021

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Metals (Continued)

Analysis Batch: 364194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	7471B	364021
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	7471B	364021
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	7471B	364021
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	7471B	364021
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	7471B	364021
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	7471B	364021
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	7471B	364021
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	7471B	364021
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	7471B	364021
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	7471B	364021
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	7471B	364021
MB 500-364021/12-A	Method Blank	Total/NA	Solid	7471B	364021
LCS 500-364021/13-A	Lab Control Sample	Total/NA	Solid	7471B	364021
500-121005-1 MS	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	364021
500-121005-1 MSD	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	364021
500-121005-1 DU	1314V3-60-B01 (0-6)	Total/NA	Solid	7471B	364021

Prep Batch: 364199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364018
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	7470A	364018
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	7470A	364018
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	7470A	364018
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	7470A	364018
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	7470A	364018
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	7470A	364018
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	7470A	364018
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	7470A	364018
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	7470A	364018
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	7470A	364018
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	7470A	364018
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	7470A	364018
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	7470A	364018
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	7470A	364018
LB 500-364018/1-B	Method Blank	TCLP	Solid	7470A	364018
MB 500-364199/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-364199/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121005-1 MS	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364018
500-121005-1 DU	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364018

Prep Batch: 364209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-7	1314V3-60-B04 (0-5)	SPLP East	Solid	3010A	364005
500-121005-10	1314V3-60-B02 (0-7)	SPLP East	Solid	3010A	364005
500-121005-12	1314V3-01-B11 (8-15)	SPLP East	Solid	3010A	364005
500-121005-13	1314V3-01-B34 (0-7)	SPLP East	Solid	3010A	364005
500-121005-14	1314V3-01-B34 (7-14)	SPLP East	Solid	3010A	364005
500-121005-15	1314V3-01-B34 (14-20)	SPLP East	Solid	3010A	364005
LB 500-364005/1-B	Method Blank	SPLP East	Solid	3010A	364005
LCS 500-364209/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Metals (Continued)

Prep Batch: 364210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	3010A	364018
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	3010A	364018
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	3010A	364018
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	3010A	364018
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	3010A	364018
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	3010A	364018
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	3010A	364018
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	3010A	364018
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	3010A	364018
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	3010A	364018
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	3010A	364018
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	3010A	364018
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	3010A	364018
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	3010A	364018
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	3010A	364018
LB 500-364018/1-C	Method Blank	TCLP	Solid	3010A	364018
LCS 500-364210/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121005-15 MS	1314V3-01-B34 (14-20)	TCLP	Solid	3010A	364018
500-121005-15 DU	1314V3-01-B34 (14-20)	TCLP	Solid	3010A	364018

Prep Batch: 364230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	3050B	
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	3050B	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	3050B	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	3050B	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	3050B	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	3050B	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	3050B	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	3050B	
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	3050B	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	3050B	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	3050B	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	3050B	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	3050B	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	3050B	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	3050B	
MB 500-364230/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-364230/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121005-15 MS	1314V3-01-B34 (14-20)	Total/NA	Solid	3050B	
500-121005-15 MSD	1314V3-01-B34 (14-20)	Total/NA	Solid	3050B	
500-121005-15 DU	1314V3-01-B34 (14-20)	Total/NA	Solid	3050B	

Analysis Batch: 364397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364199
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	7470A	364199
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	7470A	364199
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	7470A	364199
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	7470A	364199
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	7470A	364199

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Metals (Continued)

Analysis Batch: 364397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	7470A	364199
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	7470A	364199
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	7470A	364199
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	7470A	364199
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	7470A	364199
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	7470A	364199
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	7470A	364199
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	7470A	364199
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	7470A	364199
LB 500-364018/1-B	Method Blank	TCLP	Solid	7470A	364199
MB 500-364199/12-A	Method Blank	Total/NA	Solid	7470A	364199
LCS 500-364199/13-A	Lab Control Sample	Total/NA	Solid	7470A	364199
500-121005-1 MS	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364199
500-121005-1 DU	1314V3-60-B01 (0-6)	TCLP	Solid	7470A	364199

Analysis Batch: 364449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	6010B	364230
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	6010B	364230
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	6010B	364230
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	6010B	364230
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	6010B	364230
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	6010B	364230
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	6010B	364230
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	6010B	364230
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	6010B	364230
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	6010B	364230
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	6010B	364230
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	6010B	364230
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	6010B	364230
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	6010B	364230
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	6010B	364230
MB 500-364230/1-A	Method Blank	Total/NA	Solid	6010B	364230
LCS 500-364230/2-A	Lab Control Sample	Total/NA	Solid	6010B	364230
500-121005-15 MS	1314V3-01-B34 (14-20)	Total/NA	Solid	6010B	364230
500-121005-15 MSD	1314V3-01-B34 (14-20)	Total/NA	Solid	6010B	364230
500-121005-15 DU	1314V3-01-B34 (14-20)	Total/NA	Solid	6010B	364230

Analysis Batch: 364518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	6010B	364210
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	6010B	364210
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	6010B	364210
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	6010B	364210
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	6010B	364210
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	6010B	364210
500-121005-7	1314V3-60-B04 (0-5)	SPLP East	Solid	6010B	364209
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	6010B	364210
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	6010B	364210
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	6010B	364210
500-121005-10	1314V3-60-B02 (0-7)	SPLP East	Solid	6010B	364209

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Metals (Continued)

Analysis Batch: 364518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	6010B	364210
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	6010B	364210
500-121005-12	1314V3-01-B11 (8-15)	SPLP East	Solid	6010B	364209
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	6010B	364210
500-121005-13	1314V3-01-B34 (0-7)	SPLP East	Solid	6010B	364209
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	6010B	364210
500-121005-14	1314V3-01-B34 (7-14)	SPLP East	Solid	6010B	364209
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	6010B	364210
500-121005-15	1314V3-01-B34 (14-20)	SPLP East	Solid	6010B	364209
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	6010B	364210
LB 500-364005/1-B	Method Blank	SPLP East	Solid	6010B	364209
LB 500-364018/1-C	Method Blank	TCLP	Solid	6010B	364210
LCS 500-364209/2-A	Lab Control Sample	Total/NA	Solid	6010B	364209
LCS 500-364210/2-A	Lab Control Sample	Total/NA	Solid	6010B	364210
500-121005-15 MS	1314V3-01-B34 (14-20)	TCLP	Solid	6010B	364210
500-121005-15 DU	1314V3-01-B34 (14-20)	TCLP	Solid	6010B	364210

Analysis Batch: 364522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	6010B	364230
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	6010B	364230
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	6010B	364230

Analysis Batch: 364634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	TCLP	Solid	6020A	364210
500-121005-2	1314V3-60-B01 (6-11)	TCLP	Solid	6020A	364210
500-121005-3	1314V3-60-B06 (0-6)	TCLP	Solid	6020A	364210
500-121005-4	1314V3-60-B06 (6-12)	TCLP	Solid	6020A	364210
500-121005-5	1314V3-60-B05 (0-6)	TCLP	Solid	6020A	364210
500-121005-6	1314V3-60-B05 (6-12)	TCLP	Solid	6020A	364210
500-121005-7	1314V3-60-B04 (0-5)	TCLP	Solid	6020A	364210
500-121005-8	1314V3-60-B03 (0-4)	TCLP	Solid	6020A	364210
500-121005-9	1314V3-60-B03 (4-9)	TCLP	Solid	6020A	364210
500-121005-10	1314V3-60-B02 (0-7)	TCLP	Solid	6020A	364210
500-121005-11	1314V3-01-B11 (0-8)	TCLP	Solid	6020A	364210
500-121005-12	1314V3-01-B11 (8-15)	TCLP	Solid	6020A	364210
500-121005-13	1314V3-01-B34 (0-7)	TCLP	Solid	6020A	364210
500-121005-14	1314V3-01-B34 (7-14)	TCLP	Solid	6020A	364210
500-121005-15	1314V3-01-B34 (14-20)	TCLP	Solid	6020A	364210
LB 500-364018/1-C	Method Blank	TCLP	Solid	6020A	364210
LCS 500-364210/2-A	Lab Control Sample	Total/NA	Solid	6020A	364210
500-121005-15 MS	1314V3-01-B34 (14-20)	TCLP	Solid	6020A	364210
500-121005-15 DU	1314V3-01-B34 (14-20)	TCLP	Solid	6020A	364210

General Chemistry

Analysis Batch: 363835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

General Chemistry (Continued)

Analysis Batch: 363835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	Moisture	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	Moisture	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	Moisture	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	Moisture	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	Moisture	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	Moisture	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	Moisture	
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	Moisture	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	Moisture	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	Moisture	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	Moisture	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	Moisture	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	Moisture	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	Moisture	
500-121005-1 DU	1314V3-60-B01 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 364502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121005-1	1314V3-60-B01 (0-6)	Total/NA	Solid	9045D	
500-121005-2	1314V3-60-B01 (6-11)	Total/NA	Solid	9045D	
500-121005-3	1314V3-60-B06 (0-6)	Total/NA	Solid	9045D	
500-121005-4	1314V3-60-B06 (6-12)	Total/NA	Solid	9045D	
500-121005-5	1314V3-60-B05 (0-6)	Total/NA	Solid	9045D	
500-121005-6	1314V3-60-B05 (6-12)	Total/NA	Solid	9045D	
500-121005-7	1314V3-60-B04 (0-5)	Total/NA	Solid	9045D	
500-121005-8	1314V3-60-B03 (0-4)	Total/NA	Solid	9045D	
500-121005-9	1314V3-60-B03 (4-9)	Total/NA	Solid	9045D	
500-121005-10	1314V3-60-B02 (0-7)	Total/NA	Solid	9045D	
500-121005-11	1314V3-01-B11 (0-8)	Total/NA	Solid	9045D	
500-121005-12	1314V3-01-B11 (8-15)	Total/NA	Solid	9045D	
500-121005-13	1314V3-01-B34 (0-7)	Total/NA	Solid	9045D	
500-121005-14	1314V3-01-B34 (7-14)	Total/NA	Solid	9045D	
500-121005-15	1314V3-01-B34 (14-20)	Total/NA	Solid	9045D	
500-121005-1 DU	1314V3-60-B01 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121005-1	1314V3-60-B01 (0-6)	106	103	109	101
500-121005-2	1314V3-60-B01 (6-11)	105	99	106	101
500-121005-3	1314V3-60-B06 (0-6)	110	98	104	104
500-121005-4	1314V3-60-B06 (6-12)	108	98	104	102
500-121005-5	1314V3-60-B05 (0-6)	106	98	103	104
500-121005-6	1314V3-60-B05 (6-12)	105	99	107	104
500-121005-7	1314V3-60-B04 (0-5)	109	100	106	103
500-121005-8	1314V3-60-B03 (0-4)	110	98	109	105
500-121005-9	1314V3-60-B03 (4-9)	108	100	105	101
500-121005-10	1314V3-60-B02 (0-7)	103	100	106	102
500-121005-11	1314V3-01-B11 (0-8)	109	100	109	101
500-121005-12	1314V3-01-B11 (8-15)	107	100	108	103
500-121005-13	1314V3-01-B34 (0-7)	105	103	113	99
500-121005-14	1314V3-01-B34 (7-14)	106	103	109	102
500-121005-15	1314V3-01-B34 (14-20)	108	103	106	103
LCS 500-363925/4	Lab Control Sample	102	93	95	105
LCSD 500-363925/5	Lab Control Sample Dup	100	96	100	103
MB 500-363925/7	Method Blank	108	94	100	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121005-1	1314V3-60-B01 (0-6)	104	93	88	87	86	101
500-121005-2	1314V3-60-B01 (6-11)	96	89	84	83	93	101
500-121005-3	1314V3-60-B06 (0-6)	20 X	79	70	75	32	91
500-121005-3 - DL	1314V3-60-B06 (0-6)	40	78	67	80	35	96
500-121005-3 MS	1314V3-60-B06 (0-6)	23 X	77	73	73	43	112
500-121005-3 MSD	1314V3-60-B06 (0-6)	38 X	69	69	68	34	97
500-121005-4	1314V3-60-B06 (6-12)	86	82	78	77	88	95
500-121005-5	1314V3-60-B05 (0-6)	92	82	75	75	79	92
500-121005-6	1314V3-60-B05 (6-12)	92	87	75	75	64	94
500-121005-7	1314V3-60-B04 (0-5)	90	88	76	81	99	128
500-121005-8	1314V3-60-B03 (0-4)	93	83	79	79	47	97
500-121005-9	1314V3-60-B03 (4-9)	78	71	66	66	23 X	84
500-121005-10	1314V3-60-B02 (0-7)	88	82	72	72	59	88
500-121005-11	1314V3-01-B11 (0-8)	84	79	70	72	32	87
500-121005-12	1314V3-01-B11 (8-15)	89	82	76	76	39	94
500-121005-13	1314V3-01-B34 (0-7)	87	88	77	75	70	97
500-121005-14	1314V3-01-B34 (7-14)	99	98	85	84	47	104
500-121005-15	1314V3-01-B34 (14-20)	83	81	71	71	64	87

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Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
LCS 500-364629/2-A	Lab Control Sample	101	92	91	88	101	98
MB 500-364629/1-A	Method Blank	103	101	91	91	70	102

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-363925/7

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/07/16 11:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/07/16 11:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/07/16 11:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/07/16 11:34	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/07/16 11:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/07/16 11:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/07/16 11:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/07/16 11:34	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/07/16 11:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/07/16 11:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/07/16 11:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/07/16 11:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/07/16 11:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/07/16 11:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/07/16 11:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/07/16 11:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/07/16 11:34	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/07/16 11:34	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/07/16 11:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/07/16 11:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/07/16 11:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/07/16 11:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/07/16 11:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/07/16 11:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/07/16 11:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/07/16 11:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/07/16 11:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/07/16 11:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/07/16 11:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/07/16 11:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/07/16 11:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/07/16 11:34	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/07/16 11:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/07/16 11:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/07/16 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120		12/07/16 11:34	1
Dibromofluoromethane	94		75 - 120		12/07/16 11:34	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134		12/07/16 11:34	1
Toluene-d8 (Surr)	103		75 - 123		12/07/16 11:34	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-363925/4

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0443		mg/Kg		89	40 - 148
Benzene	0.0500	0.0469		mg/Kg		94	70 - 120
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	67 - 120
Bromoform	0.0500	0.0470		mg/Kg		94	50 - 129
Bromomethane	0.0500	0.0434		mg/Kg		87	50 - 134
2-Butanone (MEK)	0.0500	0.0478		mg/Kg		96	47 - 138
Carbon disulfide	0.0500	0.0498		mg/Kg		100	67 - 133
Carbon tetrachloride	0.0500	0.0468		mg/Kg		94	65 - 123
Chlorobenzene	0.0500	0.0486		mg/Kg		97	70 - 120
Chloroethane	0.0500	0.0608		mg/Kg		122	40 - 150
Chloroform	0.0500	0.0479		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0435		mg/Kg		87	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 120
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	68 - 120
1,1-Dichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	65 - 126
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 122
1,2-Dichloropropane	0.0500	0.0463		mg/Kg		93	70 - 126
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0481		mg/Kg		96	51 - 139
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0487		mg/Kg		97	51 - 141
Methyl tert-butyl ether	0.0500	0.0456		mg/Kg		91	70 - 121
Styrene	0.0500	0.0487		mg/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0495		mg/Kg		99	70 - 122
Toluene	0.0500	0.0496		mg/Kg		99	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 121
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 120
1,1,2-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 120
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 124
Vinyl acetate	0.0500	0.0474		mg/Kg		95	40 - 150
Vinyl chloride	0.0500	0.0455		mg/Kg		91	64 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		69 - 134
Toluene-d8 (Surr)	105		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-363925/5

Matrix: Solid

Analysis Batch: 363925

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0473		mg/Kg		95	40 - 148	7	30
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120	2	30
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 120	1	30
Bromoform	0.0500	0.0475		mg/Kg		95	50 - 129	1	30
Bromomethane	0.0500	0.0419		mg/Kg		84	50 - 134	3	30
2-Butanone (MEK)	0.0500	0.0498		mg/Kg		100	47 - 138	4	30
Carbon disulfide	0.0500	0.0502		mg/Kg		100	67 - 133	1	30
Carbon tetrachloride	0.0500	0.0471		mg/Kg		94	65 - 123	1	30
Chlorobenzene	0.0500	0.0482		mg/Kg		96	70 - 120	1	30
Chloroethane	0.0500	0.0516		mg/Kg		103	40 - 150	16	30
Chloroform	0.0500	0.0489		mg/Kg		98	70 - 120	2	30
Chloromethane	0.0500	0.0407		mg/Kg		81	63 - 135	7	30
cis-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 120	2	30
Dibromochloromethane	0.0500	0.0495		mg/Kg		99	68 - 120	1	30
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0509		mg/Kg		102	65 - 126	4	30
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 122	3	30
1,2-Dichloropropane	0.0500	0.0467		mg/Kg		93	70 - 126	1	30
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 120	3	30
2-Hexanone	0.0500	0.0522		mg/Kg		104	51 - 139	8	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 121	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0509		mg/Kg		102	51 - 141	4	30
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	70 - 121	4	30
Styrene	0.0500	0.0487		mg/Kg		97	70 - 121	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125	0	30
Tetrachloroethene	0.0500	0.0487		mg/Kg		97	70 - 122	1	30
Toluene	0.0500	0.0492		mg/Kg		98	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	2	30
trans-1,3-Dichloropropene	0.0500	0.0504		mg/Kg		101	70 - 121	1	30
1,1,1-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 120	1	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120	1	30
Trichloroethene	0.0500	0.0483		mg/Kg		97	70 - 124	3	30
Vinyl acetate	0.0500	0.0512		mg/Kg		102	40 - 150	8	30
Vinyl chloride	0.0500	0.0443		mg/Kg		89	64 - 125	3	30
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 123	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		70 - 120
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		69 - 134
Toluene-d8 (Surr)	103		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364629/1-A

Matrix: Solid

Analysis Batch: 364920

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/12/16 09:38	12/13/16 19:18	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364629/1-A
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/12/16 09:38	12/13/16 19:18	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/12/16 09:38	12/13/16 19:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/12/16 09:38	12/13/16 19:18	1
Phenol-d5	101		36 - 123	12/12/16 09:38	12/13/16 19:18	1
Nitrobenzene-d5	91		33 - 124	12/12/16 09:38	12/13/16 19:18	1
2-Fluorobiphenyl	91		42 - 115	12/12/16 09:38	12/13/16 19:18	1
2,4,6-Tribromophenol	70		25 - 130	12/12/16 09:38	12/13/16 19:18	1
Terphenyl-d14	102		25 - 150	12/12/16 09:38	12/13/16 19:18	1

Lab Sample ID: LCS 500-364629/2-A
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.31		mg/Kg		98	55 - 118
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	53 - 116
1,3-Dichlorobenzene	1.33	1.09		mg/Kg		81	56 - 110
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		83	57 - 110
1,2-Dichlorobenzene	1.33	1.14		mg/Kg		85	56 - 110
2-Methylphenol	1.33	1.16		mg/Kg		87	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.22		mg/Kg		91	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.18		mg/Kg		89	56 - 119
Hexachloroethane	1.33	1.12		mg/Kg		84	54 - 111
2-Chlorophenol	1.33	1.20		mg/Kg		90	57 - 117
Nitrobenzene	1.33	1.17		mg/Kg		88	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	59 - 116
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	60 - 116
Isophorone	1.33	1.10		mg/Kg		83	54 - 120
2,4-Dimethylphenol	1.33	1.11		mg/Kg		83	50 - 120
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Naphthalene	1.33	1.18		mg/Kg		88	58 - 116
2,4-Dichlorophenol	1.33	1.19		mg/Kg		90	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364629/2-A
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.34		mg/Kg		101	10 - 150
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,5-Trichlorophenol	1.33	1.18		mg/Kg		89	42 - 119
Hexachlorocyclopentadiene	1.33	0.873		mg/Kg		65	10 - 116
2-Methylnaphthalene	1.33	1.15		mg/Kg		86	55 - 120
2-Nitroaniline	1.33	1.21		mg/Kg		91	52 - 121
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	57 - 112
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	59 - 117
2,6-Dinitrotoluene	1.33	1.21		mg/Kg		91	57 - 118
2-Nitrophenol	1.33	1.18		mg/Kg		88	58 - 121
3-Nitroaniline	1.33	1.35		mg/Kg		101	20 - 144
Dimethyl phthalate	1.33	1.20		mg/Kg		90	60 - 112
2,4-Dinitrophenol	2.67	0.648	J	mg/Kg		24	10 - 110
Acenaphthylene	1.33	1.15		mg/Kg		86	57 - 116
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		95	59 - 119
Acenaphthene	1.33	1.18		mg/Kg		88	52 - 113
Dibenzofuran	1.33	1.19		mg/Kg		89	59 - 110
4-Nitrophenol	2.67	2.56		mg/Kg		96	32 - 123
Fluorene	1.33	1.20		mg/Kg		90	56 - 115
4-Nitroaniline	1.33	1.71		mg/Kg		128	55 - 146
4-Bromophenyl phenyl ether	1.33	1.20		mg/Kg		90	61 - 124
Hexachlorobenzene	1.33	1.19		mg/Kg		89	62 - 126
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		91	61 - 111
Pentachlorophenol	2.67	2.01		mg/Kg		75	12 - 116
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.43		mg/Kg		54	10 - 110
Phenanthrene	1.33	1.19		mg/Kg		89	58 - 125
Anthracene	1.33	1.20		mg/Kg		90	57 - 118
Carbazole	1.33	1.45		mg/Kg		109	65 - 137
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	61 - 123
Fluoranthene	1.33	1.21		mg/Kg		91	61 - 124
Pyrene	1.33	1.21		mg/Kg		90	60 - 115
Butyl benzyl phthalate	1.33	1.24		mg/Kg		93	61 - 115
Benzo[a]anthracene	1.33	1.16		mg/Kg		87	63 - 115
Chrysene	1.33	1.22		mg/Kg		92	63 - 118
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.25		mg/Kg		94	62 - 117
Di-n-octyl phthalate	1.33	1.26		mg/Kg		95	58 - 129
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	61 - 123
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	59 - 125
Benzo[a]pyrene	1.33	1.24		mg/Kg		93	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.25		mg/Kg		93	50 - 149
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	61 - 134
Benzo[g,h,i]perylene	1.33	1.27		mg/Kg		96	55 - 134
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364629/2-A
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364629

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	101		40 - 130
Phenol-d5	92		36 - 123
Nitrobenzene-d5	91		33 - 124
2-Fluorobiphenyl	88		42 - 115
2,4,6-Tribromophenol	101		25 - 130
Terphenyl-d14	98		25 - 150

Lab Sample ID: 500-121005-3 MS
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: 1314V3-60-B06 (0-6)
Prep Type: Total/NA
Prep Batch: 364629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.18		1.46	1.10		mg/Kg	☼	75	55 - 118
Bis(2-chloroethyl)ether	<0.18	F1 F2	1.46	2.17	F1	mg/Kg	☼	149	53 - 116
1,3-Dichlorobenzene	<0.18		1.46	0.942		mg/Kg	☼	65	56 - 110
1,4-Dichlorobenzene	<0.18		1.46	0.964		mg/Kg	☼	66	57 - 110
1,2-Dichlorobenzene	<0.18		1.46	0.958		mg/Kg	☼	66	56 - 110
2-Methylphenol	<0.18		1.46	1.01		mg/Kg	☼	69	53 - 123
2,2'-oxybis[1-chloropropane]	<0.18		1.46	1.03		mg/Kg	☼	71	22 - 133
N-Nitrosodi-n-propylamine	<0.072		1.46	0.999		mg/Kg	☼	68	56 - 119
Hexachloroethane	<0.18	F1	1.46	0.775	F1	mg/Kg	☼	53	54 - 111
2-Chlorophenol	<0.18	F1	1.46	0.668	F1	mg/Kg	☼	46	57 - 117
Nitrobenzene	<0.036		1.46	1.03		mg/Kg	☼	71	56 - 121
Bis(2-chloroethoxy)methane	<0.18		1.46	1.06		mg/Kg	☼	73	59 - 116
1,2,4-Trichlorobenzene	<0.18		1.46	1.03		mg/Kg	☼	71	60 - 116
Isophorone	<0.18		1.46	0.955		mg/Kg	☼	65	54 - 120
2,4-Dimethylphenol	<0.36		1.46	1.08		mg/Kg	☼	74	50 - 120
Hexachlorobutadiene	<0.18		1.46	1.02		mg/Kg	☼	70	56 - 120
Naphthalene	<0.036		1.46	1.06		mg/Kg	☼	72	58 - 116
2,4-Dichlorophenol	<0.36	F1	1.46	0.545	F1	mg/Kg	☼	37	61 - 116
4-Chloroaniline	<0.72		1.46	1.00		mg/Kg	☼	69	10 - 150
2,4,6-Trichlorophenol	<0.36	F1	1.46	0.624	F1	mg/Kg	☼	43	50 - 120
2,4,5-Trichlorophenol	<0.36	F1	1.46	0.583	F1	mg/Kg	☼	40	42 - 119
Hexachlorocyclopentadiene	<0.72	F1	1.46	<0.73	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	0.094		1.46	1.10		mg/Kg	☼	69	55 - 120
2-Nitroaniline	<0.18		1.46	1.12		mg/Kg	☼	77	52 - 121
2-Chloronaphthalene	<0.18		1.46	1.08		mg/Kg	☼	74	57 - 112
4-Chloro-3-methylphenol	<0.36		1.46	0.985		mg/Kg	☼	67	59 - 117
2,6-Dinitrotoluene	<0.18		1.46	1.07		mg/Kg	☼	73	57 - 118
2-Nitrophenol	<0.36	F1	1.46	0.412	F1	mg/Kg	☼	28	58 - 121
3-Nitroaniline	<0.36		1.46	1.63		mg/Kg	☼	112	20 - 144
Dimethyl phthalate	<0.18		1.46	1.12		mg/Kg	☼	77	60 - 112
2,4-Dinitrophenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	0.0049	J	1.46	1.05		mg/Kg	☼	71	57 - 116
2,4-Dinitrotoluene	<0.18		1.46	0.984		mg/Kg	☼	67	59 - 119
Acenaphthene	0.25		1.46	1.29		mg/Kg	☼	71	52 - 113
Dibenzofuran	0.19		1.46	1.30		mg/Kg	☼	76	59 - 110
4-Nitrophenol	<0.72		2.92	1.72		mg/Kg	☼	59	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121005-3 MS

Matrix: Solid

Analysis Batch: 364920

Client Sample ID: 1314V3-60-B06 (0-6)

Prep Type: Total/NA

Prep Batch: 364629

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	0.26		1.46	1.36		mg/Kg	☼	75		56 - 115
4-Nitroaniline	<0.36		1.46	1.68		mg/Kg	☼	115		55 - 146
4-Bromophenyl phenyl ether	<0.18		1.46	1.21		mg/Kg	☼	83		61 - 124
Hexachlorobenzene	<0.072		1.46	1.21		mg/Kg	☼	83		62 - 126
Diethyl phthalate	<0.18		1.46	1.20		mg/Kg	☼	82		58 - 117
4-Chlorophenyl phenyl ether	<0.18		1.46	1.21		mg/Kg	☼	83		61 - 111
Pentachlorophenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0		12 - 116
N-Nitrosodiphenylamine	<0.18		1.46	1.21		mg/Kg	☼	83		62 - 117
4,6-Dinitro-2-methylphenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0		10 - 110
Phenanthrene	2.5	F1	1.46	3.02	E F1	mg/Kg	☼	35		58 - 125
Anthracene	0.65	F1	1.46	1.64		mg/Kg	☼	68		57 - 118
Carbazole	0.43		1.46	1.83		mg/Kg	☼	96		65 - 137
Di-n-butyl phthalate	<0.18		1.46	1.19		mg/Kg	☼	81		61 - 123
Fluoranthene	3.0	E F1	1.46	3.43	E F1	mg/Kg	☼	32		61 - 124
Pyrene	2.2	F1	1.46	3.60	E	mg/Kg	☼	92		60 - 115
Butyl benzyl phthalate	<0.18		1.46	1.42		mg/Kg	☼	97		61 - 115
Benzo[a]anthracene	1.2	F1	1.46	2.11		mg/Kg	☼	65		63 - 115
Chrysene	1.1	F1	1.46	2.04	F1	mg/Kg	☼	61		63 - 118
3,3'-Dichlorobenzidine	<0.18		1.46	1.13		mg/Kg	☼	77		40 - 110
Bis(2-ethylhexyl) phthalate	<0.18		1.46	1.49		mg/Kg	☼	102		62 - 117
Di-n-octyl phthalate	<0.18		1.46	1.04		mg/Kg	☼	71		58 - 129
Benzo[b]fluoranthene	1.5	F1	1.46	2.94	E	mg/Kg	☼	101		61 - 123
Benzo[k]fluoranthene	0.50		1.46	2.23		mg/Kg	☼	119		59 - 125
Benzo[a]pyrene	0.97	F1	1.46	2.04		mg/Kg	☼	74		64 - 122
Indeno[1,2,3-cd]pyrene	0.34	F1	1.46	0.889	F1	mg/Kg	☼	38		50 - 149
Dibenz(a,h)anthracene	0.12	F1	1.46	0.766	F1	mg/Kg	☼	44		61 - 134
Benzo[g,h,i]perylene	0.32	F1	1.46	0.818	F1	mg/Kg	☼	34		55 - 134
3 & 4 Methylphenol	<0.18		1.46	1.06		mg/Kg	☼	73		55 - 124

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	23	X	40 - 130
Phenol-d5	77		36 - 123
Nitrobenzene-d5	73		33 - 124
2-Fluorobiphenyl	73		42 - 115
2,4,6-Tribromophenol	43		25 - 130
Terphenyl-d14	112		25 - 150

Lab Sample ID: 500-121005-3 MSD

Matrix: Solid

Analysis Batch: 364920

Client Sample ID: 1314V3-60-B06 (0-6)

Prep Type: Total/NA

Prep Batch: 364629

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.18		1.46	1.05		mg/Kg	☼	72		55 - 118	5	30
Bis(2-chloroethyl)ether	<0.18	F1 F2	1.46	0.702	F1 F2	mg/Kg	☼	48		53 - 116	102	30
1,3-Dichlorobenzene	<0.18		1.46	0.921		mg/Kg	☼	63		56 - 110	2	30
1,4-Dichlorobenzene	<0.18		1.46	0.926		mg/Kg	☼	63		57 - 110	4	30
1,2-Dichlorobenzene	<0.18		1.46	0.935		mg/Kg	☼	64		56 - 110	2	30
2-Methylphenol	<0.18		1.46	0.941		mg/Kg	☼	64		53 - 123	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121005-3 MSD

Matrix: Solid

Analysis Batch: 364920

Client Sample ID: 1314V3-60-B06 (0-6)

Prep Type: Total/NA

Prep Batch: 364629

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.18		1.46	1.00		mg/Kg	☼	69	22 - 133	3	30
N-Nitrosodi-n-propylamine	<0.072		1.46	0.970		mg/Kg	☼	66	56 - 119	3	30
Hexachloroethane	<0.18	F1	1.46	0.796		mg/Kg	☼	54	54 - 111	3	30
2-Chlorophenol	<0.18	F1	1.46	0.801	F1	mg/Kg	☼	55	57 - 117	18	30
Nitrobenzene	<0.036		1.46	0.995		mg/Kg	☼	68	56 - 121	4	30
Bis(2-chloroethoxy)methane	<0.18		1.46	0.995		mg/Kg	☼	68	59 - 116	7	30
1,2,4-Trichlorobenzene	<0.18		1.46	0.983		mg/Kg	☼	67	60 - 116	5	30
Isophorone	<0.18		1.46	0.910		mg/Kg	☼	62	54 - 120	5	30
2,4-Dimethylphenol	<0.36		1.46	0.964		mg/Kg	☼	66	50 - 120	11	30
Hexachlorobutadiene	<0.18		1.46	0.970		mg/Kg	☼	66	56 - 120	5	30
Naphthalene	<0.036		1.46	1.01		mg/Kg	☼	69	58 - 116	5	30
2,4-Dichlorophenol	<0.36	F1	1.46	0.615	F1	mg/Kg	☼	42	61 - 116	12	30
4-Chloroaniline	<0.72		1.46	0.851		mg/Kg	☼	58	10 - 150	16	30
2,4,6-Trichlorophenol	<0.36	F1	1.46	0.478	F1	mg/Kg	☼	33	50 - 120	26	30
2,4,5-Trichlorophenol	<0.36	F1	1.46	0.468	F1	mg/Kg	☼	32	42 - 119	22	30
Hexachlorocyclopentadiene	<0.72	F1	1.46	<0.73	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	0.094		1.46	1.01		mg/Kg	☼	63	55 - 120	9	30
2-Nitroaniline	<0.18		1.46	1.04		mg/Kg	☼	71	52 - 121	7	30
2-Chloronaphthalene	<0.18		1.46	1.00		mg/Kg	☼	69	57 - 112	7	30
4-Chloro-3-methylphenol	<0.36		1.46	0.946		mg/Kg	☼	65	59 - 117	4	30
2,6-Dinitrotoluene	<0.18		1.46	1.02		mg/Kg	☼	70	57 - 118	5	30
2-Nitrophenol	<0.36	F1	1.46	0.483	F1	mg/Kg	☼	33	58 - 121	16	30
3-Nitroaniline	<0.36		1.46	1.31		mg/Kg	☼	90	20 - 144	22	30
Dimethyl phthalate	<0.18		1.46	1.01		mg/Kg	☼	69	60 - 112	10	30
2,4-Dinitrophenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	0.0049	J	1.46	0.969		mg/Kg	☼	66	57 - 116	8	30
2,4-Dinitrotoluene	<0.18		1.46	0.972		mg/Kg	☼	67	59 - 119	1	30
Acenaphthene	0.25		1.46	1.16		mg/Kg	☼	62	52 - 113	10	30
Dibenzofuran	0.19		1.46	1.18		mg/Kg	☼	68	59 - 110	10	30
4-Nitrophenol	<0.72		2.92	1.59		mg/Kg	☼	54	32 - 123	8	30
Fluorene	0.26		1.46	1.22		mg/Kg	☼	66	56 - 115	11	30
4-Nitroaniline	<0.36		1.46	1.57		mg/Kg	☼	107	55 - 146	7	30
4-Bromophenyl phenyl ether	<0.18		1.46	1.05		mg/Kg	☼	72	61 - 124	13	30
Hexachlorobenzene	<0.072		1.46	1.07		mg/Kg	☼	73	62 - 126	12	30
Diethyl phthalate	<0.18		1.46	1.11		mg/Kg	☼	76	58 - 117	8	30
4-Chlorophenyl phenyl ether	<0.18		1.46	1.08		mg/Kg	☼	74	61 - 111	12	30
Pentachlorophenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0	12 - 116	NC	30
N-Nitrosodiphenylamine	<0.18		1.46	1.04		mg/Kg	☼	71	62 - 117	15	30
4,6-Dinitro-2-methylphenol	<0.72	F1	2.92	<0.73	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	2.5	F1	1.46	2.51	F1	mg/Kg	☼	0.6	58 - 125	18	30
Anthracene	0.65	F1	1.46	1.41	F1	mg/Kg	☼	52	57 - 118	15	30
Carbazole	0.43		1.46	1.58		mg/Kg	☼	79	65 - 137	14	30
Di-n-butyl phthalate	<0.18		1.46	1.07		mg/Kg	☼	73	61 - 123	11	30
Fluoranthene	3.0	E F1	1.46	2.84	E F1	mg/Kg	☼	-8	61 - 124	19	30
Pyrene	2.2	F1	1.46	2.89	E F1	mg/Kg	☼	44	60 - 115	22	30
Butyl benzyl phthalate	<0.18		1.46	1.25		mg/Kg	☼	86	61 - 115	13	30
Benzo[a]anthracene	1.2	F1	1.46	1.76	F1	mg/Kg	☼	41	63 - 115	18	30
Chrysene	1.1	F1	1.46	1.76	F1	mg/Kg	☼	42	63 - 118	14	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121005-3 MSD
Matrix: Solid
Analysis Batch: 364920

Client Sample ID: 1314V3-60-B06 (0-6)
Prep Type: Total/NA
Prep Batch: 364629

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
3,3'-Dichlorobenzidine	<0.18		1.46	1.01		mg/Kg	☼	69	40 - 110	12	30
Bis(2-ethylhexyl) phthalate	<0.18		1.46	1.32		mg/Kg	☼	90	62 - 117	12	30
Di-n-octyl phthalate	<0.18		1.46	0.976		mg/Kg	☼	67	58 - 129	6	30
Benzo[b]fluoranthene	1.5	F1	1.46	2.30	F1	mg/Kg	☼	57	61 - 123	24	30
Benzo[k]fluoranthene	0.50		1.46	1.82		mg/Kg	☼	91	59 - 125	20	30
Benzo[a]pyrene	0.97	F1	1.46	1.70	F1	mg/Kg	☼	50	64 - 122	18	30
Indeno[1,2,3-cd]pyrene	0.34	F1	1.46	0.754	F1	mg/Kg	☼	28	50 - 149	16	30
Dibenz(a,h)anthracene	0.12	F1	1.46	0.656	F1	mg/Kg	☼	37	61 - 134	15	30
Benzo[g,h,i]perylene	0.32	F1	1.46	0.674	F1	mg/Kg	☼	24	55 - 134	19	30
3 & 4 Methylphenol	<0.18		1.46	0.994		mg/Kg	☼	68	55 - 124	6	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorophenol	38	X	40 - 130								
Phenol-d5	69		36 - 123								
Nitrobenzene-d5	69		33 - 124								
2-Fluorobiphenyl	68		42 - 115								
2,4,6-Tribromophenol	34		25 - 130								
Terphenyl-d14	97		25 - 150								

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-364209/2-A
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364209

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.528		mg/L		106	80 - 120

Lab Sample ID: LCS 500-364210/2-A
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364210

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.545		mg/L		109	80 - 120
Beryllium	0.0500	0.0559		mg/L		112	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0543		mg/L		109	80 - 120
Chromium	0.200	0.223		mg/L		111	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Iron	1.00	1.12		mg/L		112	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Manganese	0.500	0.583		mg/L		117	80 - 120
Nickel	0.500	0.541		mg/L		108	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Silver	0.0500	0.0524		mg/L		105	80 - 120
Zinc	0.500	0.554		mg/L		111	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-364230/1-A
Matrix: Solid
Analysis Batch: 364449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Barium	<1.0		1.0	0.18	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Boron	<5.0		5.0	0.70	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Calcium	<20		20	6.4	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Chromium	0.302	J	1.0	0.17	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Copper	<1.0		1.0	0.22	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Iron	<20		20	7.7	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Lead	<0.50		0.50	0.25	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Magnesium	<10		10	4.1	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Potassium	<50		50	8.2	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Silver	<0.50		0.50	0.12	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Sodium	<100		100	13	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/08/16 15:09	12/09/16 12:43	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/08/16 15:09	12/09/16 12:43	1

Lab Sample ID: LCS 500-364230/2-A
Matrix: Solid
Analysis Batch: 364449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.0		mg/Kg		92	80 - 120
Arsenic	10.0	9.32		mg/Kg		93	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.69		mg/Kg		94	80 - 120
Boron	100	85.5		mg/Kg		85	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Calcium	1000	961		mg/Kg		96	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Cobalt	50.0	46.5		mg/Kg		93	80 - 120
Copper	25.0	22.9		mg/Kg		92	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	10.0	9.39		mg/Kg		94	80 - 120
Magnesium	1000	934		mg/Kg		93	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	46.6		mg/Kg		93	80 - 120
Potassium	1000	923		mg/Kg		92	80 - 120
Selenium	10.0	8.69		mg/Kg		87	80 - 120
Silver	5.00	4.42		mg/Kg		88	80 - 120
Sodium	1000	943		mg/Kg		94	80 - 120
Thallium	10.0	8.62		mg/Kg		86	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-364230/2-A
Matrix: Solid
Analysis Batch: 364449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364230
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	47.6		mg/Kg		95	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: 500-121005-15 MS
Matrix: Solid
Analysis Batch: 364449

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: Total/NA
Prep Batch: 364230
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.34	J F1	27.4	6.11	F1	mg/Kg	☼	21	75 - 125
Arsenic	3.0	F1 F2	5.49	11.2	F1	mg/Kg	☼	150	75 - 125
Barium	48		110	141		mg/Kg	☼	85	75 - 125
Beryllium	0.46		2.74	2.68		mg/Kg	☼	81	75 - 125
Boron	2.5	J F1	54.9	36.3	F1	mg/Kg	☼	62	75 - 125
Cadmium	0.15		2.74	2.38		mg/Kg	☼	81	75 - 125
Calcium	30000		549	30300	4	mg/Kg	☼	118	75 - 125
Chromium	11	B	11.0	22.0		mg/Kg	☼	100	75 - 125
Cobalt	6.8	F1 F2	27.4	42.7	F1	mg/Kg	☼	131	75 - 125
Copper	11		13.7	21.6		mg/Kg	☼	80	75 - 125
Iron	12000		54.9	13400	4	mg/Kg	☼	2574	75 - 125
Lead	8.1		5.49	14.0		mg/Kg	☼	108	75 - 125
Magnesium	15000		549	16200	4	mg/Kg	☼	161	75 - 125
Manganese	250		27.4	268	4	mg/Kg	☼	61	75 - 125
Nickel	17	F1 F2	27.4	54.5	F1	mg/Kg	☼	138	75 - 125
Potassium	750	F1	549	1510	F1	mg/Kg	☼	138	75 - 125
Selenium	0.41	J F1	5.49	4.31	F1	mg/Kg	☼	71	75 - 125
Silver	<0.28	F1	2.74	2.06		mg/Kg	☼	75	75 - 125
Sodium	76		549	544		mg/Kg	☼	85	75 - 125
Thallium	<0.56		5.49	4.29		mg/Kg	☼	78	75 - 125
Vanadium	17		27.4	42.4		mg/Kg	☼	94	75 - 125
Zinc	32		27.4	64.9		mg/Kg	☼	121	75 - 125

Lab Sample ID: 500-121005-15 MSD
Matrix: Solid
Analysis Batch: 364449

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: Total/NA
Prep Batch: 364230
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	0.34	J F1	27.2	6.16	F1	mg/Kg	☼	21	75 - 125	1	20
Arsenic	3.0	F1 F2	5.43	7.27	F2	mg/Kg	☼	78	75 - 125	43	20
Barium	48		109	132		mg/Kg	☼	78	75 - 125	7	20
Beryllium	0.46		2.72	2.64		mg/Kg	☼	80	75 - 125	1	20
Boron	2.5	J F1	54.3	37.8	F1	mg/Kg	☼	65	75 - 125	4	20
Cadmium	0.15		2.72	2.31		mg/Kg	☼	80	75 - 125	3	20
Calcium	30000		543	30200	4	mg/Kg	☼	84	75 - 125	1	20
Chromium	11	B	10.9	22.2		mg/Kg	☼	103	75 - 125	1	20
Cobalt	6.8	F1 F2	27.2	32.4	F2	mg/Kg	☼	94	75 - 125	28	20
Copper	11		13.6	22.0		mg/Kg	☼	83	75 - 125	2	20
Iron	12000		54.3	13200	4	mg/Kg	☼	2243	75 - 125	1	20
Lead	8.1		5.43	13.5		mg/Kg	☼	101	75 - 125	3	20
Magnesium	15000		543	16500	4	mg/Kg	☼	228	75 - 125	2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121005-15 MSD

Matrix: Solid

Analysis Batch: 364449

Client Sample ID: 1314V3-01-B34 (14-20)

Prep Type: Total/NA

Prep Batch: 364230

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Manganese	250		27.2	273	4	mg/Kg	☼	79	75 - 125	2	20
Nickel	17	F1 F2	27.2	41.2	F2	mg/Kg	☼	91	75 - 125	28	20
Potassium	750	F1	543	1590	F1	mg/Kg	☼	155	75 - 125	5	20
Selenium	0.41	J F1	5.43	4.19	F1	mg/Kg	☼	70	75 - 125	3	20
Silver	<0.28	F1	2.72	2.00	F1	mg/Kg	☼	74	75 - 125	3	20
Sodium	76		543	536		mg/Kg	☼	84	75 - 125	2	20
Thallium	<0.56		5.43	4.06		mg/Kg	☼	75	75 - 125	5	20
Vanadium	17		27.2	42.7		mg/Kg	☼	96	75 - 125	1	20
Zinc	32		27.2	59.9		mg/Kg	☼	104	75 - 125	8	20

Lab Sample ID: 500-121005-15 DU

Matrix: Solid

Analysis Batch: 364449

Client Sample ID: 1314V3-01-B34 (14-20)

Prep Type: Total/NA

Prep Batch: 364230

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.34	J F1	<1.1		mg/Kg	☼	NC	20
Arsenic	3.0	F1 F2	3.45		mg/Kg	☼	13	20
Barium	48		46.7		mg/Kg	☼	2	20
Beryllium	0.46		0.448		mg/Kg	☼	2	20
Boron	2.5	J F1	2.70	J	mg/Kg	☼	7	20
Cadmium	0.15		0.160		mg/Kg	☼	10	20
Calcium	30000		30400		mg/Kg	☼	2	20
Chromium	11	B	11.2		mg/Kg	☼	1	20
Cobalt	6.8	F1 F2	6.64		mg/Kg	☼	2	20
Copper	11		11.2		mg/Kg	☼	5	20
Iron	12000		12500		mg/Kg	☼	5	20
Lead	8.1		8.55		mg/Kg	☼	6	20
Magnesium	15000		15200		mg/Kg	☼	0.5	20
Manganese	250		286		mg/Kg	☼	13	20
Nickel	17	F1 F2	15.4		mg/Kg	☼	8	20
Potassium	750	F1	765		mg/Kg	☼	2	20
Selenium	0.41	J F1	0.514	J F5	mg/Kg	☼	23	20
Silver	<0.28	F1	<0.28		mg/Kg	☼	NC	20
Sodium	76		76.4		mg/Kg	☼	0.1	20
Thallium	<0.56		<0.56		mg/Kg	☼	NC	20
Vanadium	17		16.6		mg/Kg	☼	0.5	20
Zinc	32		34.2		mg/Kg	☼	8	20

Lab Sample ID: LB 500-364018/1-C

Matrix: Solid

Analysis Batch: 364518

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 364210

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/16 14:21	12/10/16 17:04	1
Boron	<0.50		0.50	0.050	mg/L		12/08/16 14:21	12/10/16 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/08/16 14:21	12/10/16 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:04	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-364018/1-C
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364210

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.40		0.40	0.20	mg/L		12/08/16 14:21	12/10/16 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:21	12/10/16 17:04	1
Manganese	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:04	1
Nickel	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		12/08/16 14:21	12/10/16 17:04	1
Silver	<0.025		0.025	0.010	mg/L		12/08/16 14:21	12/10/16 17:04	1
Zinc	<0.50		0.50	0.020	mg/L		12/08/16 14:21	12/10/16 17:04	1

Lab Sample ID: 500-121005-15 MS
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: TCLP
Prep Batch: 364210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Barium	0.74		0.500	1.19		mg/L		90	50 - 150
Beryllium	<0.0040		0.0500	0.0485		mg/L		97	50 - 150
Boron	0.051	J	1.00	0.996		mg/L		95	50 - 150
Cadmium	<0.0050		0.0500	0.0460		mg/L		92	50 - 150
Chromium	<0.025		0.200	0.186		mg/L		93	50 - 150
Cobalt	0.016	J	0.500	0.454		mg/L		88	50 - 150
Iron	2.7		1.00	3.56		mg/L		86	50 - 150
Lead	<0.0075		0.100	0.0923		mg/L		92	50 - 150
Manganese	3.9		0.500	4.31	4	mg/L		77	50 - 150
Nickel	0.033		0.500	0.467		mg/L		87	50 - 150
Selenium	<0.050		0.100	0.102		mg/L		102	50 - 150
Silver	<0.025		0.0500	0.0504		mg/L		101	50 - 150
Zinc	0.023	J	0.500	0.483	J	mg/L		92	50 - 150

Lab Sample ID: 500-121005-15 DU
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: TCLP
Prep Batch: 364210

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.74		0.740		mg/L		0.4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.051	J	0.0513	J	mg/L		0.8	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.016	J	0.0163	J	mg/L		5	20
Iron	2.7		2.75		mg/L		2	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	3.9		3.97		mg/L		1	20
Nickel	0.033		0.0336		mg/L		2	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.023	J	0.0223	J	mg/L		2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-364005/1-B
Matrix: Solid
Analysis Batch: 364518

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 364209

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/16 14:20	12/11/16 02:05	1
Manganese	<0.025		0.025	0.010	mg/L		12/08/16 14:20	12/11/16 02:05	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-364210/2-A
Matrix: Solid
Analysis Batch: 364634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364210
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LB 500-364018/1-C
Matrix: Solid
Analysis Batch: 364634

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364210

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/16 14:21	12/09/16 16:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/16 14:21	12/09/16 16:32	1

Lab Sample ID: 500-121005-15 MS
Matrix: Solid
Analysis Batch: 364634

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: TCLP
Prep Batch: 364210
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.430		mg/L		86	50 - 150
Thallium	<0.0020		0.100	0.0886		mg/L		89	50 - 150

Lab Sample ID: 500-121005-15 DU
Matrix: Solid
Analysis Batch: 364634

Client Sample ID: 1314V3-01-B34 (14-20)
Prep Type: TCLP
Prep Batch: 364210
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-364199/12-A
Matrix: Solid
Analysis Batch: 364397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:20	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-364199/13-A
Matrix: Solid
Analysis Batch: 364397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00185		mg/L		92	80 - 120

Lab Sample ID: LB 500-364018/1-B
Matrix: Solid
Analysis Batch: 364397

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364199

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/16 12:45	12/09/16 09:31	1

Lab Sample ID: 500-121005-1 MS
Matrix: Solid
Analysis Batch: 364397

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: TCLP
Prep Batch: 364199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000931		mg/L		93	50 - 150

Lab Sample ID: 500-121005-1 DU
Matrix: Solid
Analysis Batch: 364397

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: TCLP
Prep Batch: 364199

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-364021/12-A
Matrix: Solid
Analysis Batch: 364194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/07/16 14:45	12/08/16 10:52	1

Lab Sample ID: LCS 500-364021/13-A
Matrix: Solid
Analysis Batch: 364194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.159		mg/Kg		95	80 - 120

Lab Sample ID: 500-121005-1 MS
Matrix: Solid
Analysis Batch: 364194

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.042		0.0918	0.119		mg/Kg	☼	84	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-121005-1 MSD
Matrix: Solid
Analysis Batch: 364194

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.042		0.0905	0.118		mg/Kg	☼	83	75 - 125	1	20

Lab Sample ID: 500-121005-1 DU
Matrix: Solid
Analysis Batch: 364194

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364021

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.042		0.0472		mg/Kg	☼	11	20

Method: 9045D - pH

Lab Sample ID: 500-121005-1 DU
Matrix: Solid
Analysis Batch: 364502

Client Sample ID: 1314V3-60-B01 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.6		7.6		SU		0.3	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 17:18	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:38	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502		SMO	TAL CHI
					(Start)	12/09/16 18:57		
					(End)	12/09/16 19:00		
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B01 (0-6)

Lab Sample ID: 500-121005-1

Date Collected: 12/05/16 12:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 14:30	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 19:47	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 13:34	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 10:57	MJD	TAL CHI

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 17:25	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:42	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:43	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	364502	12/09/16 19:03 (Start) 12/09/16 19:07 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B01 (6-11)

Lab Sample ID: 500-121005-2

Date Collected: 12/05/16 12:45

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 14:55	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 20:16	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 13:37	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:06	MJD	TAL CHI

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 17:31	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:45	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	12/09/16 19:07 (Start) 12/09/16 19:10 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (0-6)

Lab Sample ID: 500-121005-3

Date Collected: 12/05/16 13:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 15:20	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 03:03	GES	TAL CHI
Total/NA	Prep	3541	DL		364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	5	365062	12/14/16 16:27	AJD	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 13:42	PJ1	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		10	364522	12/09/16 23:18	KML	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:08	MJD	TAL CHI

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 17:38	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:49	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:10 (End) 12/09/16 19:14	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 15:44	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 20:45	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 13:47	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B06 (6-12)

Lab Sample ID: 500-121005-4

Date Collected: 12/05/16 13:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	364194	12/08/16 11:15	MJD	TAL CHI

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 17:45	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:52	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:14 (End) 12/09/16 19:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B05 (0-6)

Lab Sample ID: 500-121005-5

Date Collected: 12/05/16 13:35

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 16:09	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 21:14	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 13:58	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:18	MJD	TAL CHI

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:07	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:56	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:17 (End) 12/09/16 19:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B05 (6-12)

Lab Sample ID: 500-121005-6

Date Collected: 12/05/16 13:40

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 16:34	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 21:43	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:03	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:20	MJD	TAL CHI

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 03:15	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:14	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 16:59	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:50	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	364502	12/09/16 19:21 (Start) 12/09/16 19:24 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B04 (0-5)

Lab Sample ID: 500-121005-7

Date Collected: 12/05/16 13:55

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 16:59	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 03:32	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:07	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:22	MJD	TAL CHI

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:21	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:02	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	12/09/16 19:24 (Start) 12/09/16 19:28 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B03 (0-4)

Lab Sample ID: 500-121005-8

Date Collected: 12/05/16 14:10

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 17:24	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 22:12	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:12	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 12:04	MJD	TAL CHI

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:28	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:13	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502		SMO	TAL CHI
					(Start)	12/09/16 19:28		
					(End)	12/09/16 19:31		
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B03 (4-9)

Lab Sample ID: 500-121005-9

Date Collected: 12/05/16 14:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 17:48	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 22:41	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:16	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:27	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 03:36	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:35	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:16	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:31 (End) 12/09/16 19:35	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-60-B02 (0-7)

Lab Sample ID: 500-121005-10

Date Collected: 12/05/16 14:30

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 18:13	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 02:05	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:21	PJ1	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		10	364522	12/09/16 23:22	KML	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:29	MJD	TAL CHI

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:41	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:20	PFK	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 09:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502		SMO	TAL CHI
					(Start)	12/09/16 19:35		
					(End)	12/09/16 19:38		
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-01-B11 (0-8)

Lab Sample ID: 500-121005-11

Date Collected: 12/05/16 15:05

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 18:38	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 23:10	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:25	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:31	MJD	TAL CHI

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 04:05	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:48	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:23	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 10:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502		SMO	TAL CHI
					(Start)	12/09/16 19:38		
					(End)	12/09/16 19:42		
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B11 (8-15)

Lab Sample ID: 500-121005-12

Date Collected: 12/05/16 15:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 19:02	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/13/16 23:39	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:30	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:34	MJD	TAL CHI

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 04:12	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 18:55	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:26	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 10:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:42 (End) 12/09/16 19:45	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-01-B34 (0-7)

Lab Sample ID: 500-121005-13

Date Collected: 12/05/16 16:15

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 19:27	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 02:34	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:34	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 11:36	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 04:19	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 19:02	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:30	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 10:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:45 (End) 12/09/16 19:49	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-01-B34 (7-14)

Lab Sample ID: 500-121005-14

Date Collected: 12/05/16 16:20

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 19:52	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 00:08	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:39	PJ1	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		10	364522	12/09/16 23:26	KML	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 12:06	MJD	TAL CHI

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364005	12/07/16 12:00	RMP	TAL CHI
SPLP East	Prep	3010A			364209	12/08/16 14:20	JNH	TAL CHI
SPLP East	Analysis	6010B		1	364518	12/11/16 04:25	KML	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6010B		1	364518	12/10/16 19:08	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	3010A			364210	12/08/16 14:21	JNH	TAL CHI
TCLP	Analysis	6020A		1	364634	12/09/16 17:33	PFK	TAL CHI
TCLP	Leach	1311			364018	12/07/16 13:45	RMP	TAL CHI
TCLP	Prep	7470A			364199	12/08/16 12:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	364397	12/09/16 10:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 19:49 (End) 12/09/16 19:52	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	363835	12/06/16 14:55	LWN	TAL CHI

Client Sample ID: 1314V3-01-B34 (14-20)

Lab Sample ID: 500-121005-15

Date Collected: 12/05/16 16:24

Matrix: Solid

Date Received: 12/06/16 10:30

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			363956	12/06/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	363925	12/07/16 20:16	DJD	TAL CHI
Total/NA	Prep	3541			364629	12/12/16 09:38	DAK	TAL CHI
Total/NA	Analysis	8270D		1	364920	12/14/16 00:38	GES	TAL CHI
Total/NA	Prep	3050B			364230	12/08/16 15:09	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364449	12/09/16 14:51	PJ1	TAL CHI
Total/NA	Prep	7471B			364021	12/07/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364194	12/08/16 12:09	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121005-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-121005 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121005

Chain of Custody Number: EG46-18

Page _____ of _____

Temperature °C of Cooler: 4.4/1.2

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name		Lab Project #		Matrix		Matrix												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #		# of Containers		Matrix												Comments	
Sampler		Lab PM		Date		Time													
Lab ID	MS/MSD	Sample ID		Date		Time		# of Containers	Matrix										
1		1314V3-60-B01(0-6)		12-5-16	12-40	2	5	X	X	X	X	X							64C08
2		1314V3-60-B01(6-11)		12-5-16	12-45	2	5	X	X	X	X	X							
3		1314V3-60-B06(0-6)		12-5-16	13-05	2	5	X	X	X	X	X							
4		1314V3-60-B06(6-12)		12-5-16	13-10	2	5	X	X	X	X	X							
5		1314V3-60-B05(0-6)		12-5-16	13-35	2	5	X	X	X	X	X							
6		1314V3-60-B05(6-12)		12-5-16	13-40	2	5	X	X	X	X	X							
7		1314V3-60-B04(0-5)		12-5-16	13-55	2	5	X	X	X	X	X							
8		1314V3-60-B03(0-4)		12-5-16	14-10	2	5	X	X	X	X	X							
9		1314V3-60-B03(4-9)		12-5-16	14-15	2	5	X	X	X	X	X							
10		1314V3-60-B02(0-7)		12-5-16	14-30	2	5	X	X	X	X	X							

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Lab Courier
	TA	12-5-16	1715		TA-COCC	12/6/16	1030	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
								FedEx
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

<p>Matrix Key</p> <p>WW - Wastewater SE - Sediment W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wipe MS - Miscellaneous DW - Drinking Water OL - Oil O - Other A - Air</p>	Client Comments	Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-12/005

Chain of Custody Number: ES46-19

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
EE		1009008-0076-01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix										Comments	
I74		SC012744															
Project Location/State		Lab PM		Date		Time											
Rab Island Curly, IL		D Wright															
Sampler		Sample ID		Date		Time											
S. Cooper																	
11		1314V3-01-B11 (0-8)	12-5-16	1505	2	5			X	X	X	X	X				64C08
12		1314V3-01-B11 (8-15)	12-5-16	1515	2	5			X	X	X	X	X				
<i>[Large handwritten signature and scribble across the table]</i>																	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company CE	Date 12/5/16	Time	Received By <i>[Signature]</i>	Company TA-CRT	Date 12/6/16	Time 1030	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <i>[Signature]</i>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121005

Chain of Custody Number: EN16-20

Page _____ of _____

Temperature °C of Cooler: _____

Client <u>EE</u>		Client Project # <u>109998 0046-01</u>		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name <u>I74</u>		Lab Project # <u>50012744</u>		Parameter		Parameter						
Project Location/State <u>Park Island Com, IL</u>		Lab PM <u>D. Wray</u>		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Sampling Date	Time	# of Containers	Matrix	Vol	SWOL	Total TAC	Total TAC	Total TAC	Comments
13		1314V3-01-1534(0-7)	12-5-16	1615	2	S	X	X	X	X	X	64126
14		1314V3-01-1534(7-14)	12-5-16	1620	2	S	X	X	X	X	X	
15		1314V3-01-1534(14-20)	12-5-16	1624	2	S	X	X	X	X	X	
12-5-16												

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other 10 Days

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>EE</u>	Date <u>12-5-16</u>	Time <u>1715</u>	Received By <u>Sherril Scott</u>	Company <u>TA-CHI</u>	Date <u>12/6/16</u>	Time <u>1030</u>	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <u>Feed X</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121005-1

Login Number: 121005

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1,1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121121-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/20/2016 7:55:43 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Job ID: 500-121121-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121121-1

Comments

No additional comments.

Receipt

The samples were received on 12/7/2016 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 4.5° C.

Received 16oz jar for laboratory sample -15 with an ID of 1314V3-01-B05 (8-15)D, Chain of custody has 1314V3-01-B06 (8-15)D. Logged in per chain.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: (500-121121-E-1-S MS). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121121-E-1-S MS) and (500-121121-E-1-T MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: The continuing calibration verifications (CCV), at lines 49, 61 and 72, associated with batch 500-365046 recovered above the upper control limit for Thallium. Also, the low level CCV bracketing these samples were all within control limits. The samples associated with these CCV were non-detects for the affected analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.11		0.022	0.0097	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.022		0.0055	0.0025	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.030	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.085	0.0078	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.049		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.013	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.030	J	0.042	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.38		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.072		0.042	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.63		0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.48		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.24		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.094	F1	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.027	J F1	0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.095	F1	0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.90	J F1	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	13		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	37000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	F2	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	38		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400	B F1	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	230		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	100	F1 F2	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.62		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.038		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.0083		0.0060	0.0060	mg/L	1		6020A	TCLP
Mercury	0.22		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6) (Continued)

Lab Sample ID: 500-121121-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.019	0.0082	mg/Kg	1	*	8260B	Total/NA
Diethyl phthalate	0.29		0.19	0.064	mg/Kg	1	*	8270D	Total/NA
Antimony	0.53	J	1.1	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	11		0.57	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	37		0.57	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.53		0.23	0.049	mg/Kg	1	*	6010B	Total/NA
Boron	2.3	J	2.8	0.40	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.89		0.11	0.033	mg/Kg	1	*	6010B	Total/NA
Calcium	2400	B	11	3.7	mg/Kg	1	*	6010B	Total/NA
Chromium	12	B	0.57	0.098	mg/Kg	1	*	6010B	Total/NA
Cobalt	6.8		0.28	0.064	mg/Kg	1	*	6010B	Total/NA
Copper	36		0.57	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	*	6010B	Total/NA
Lead	4.0		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	1200	B	5.7	2.3	mg/Kg	1	*	6010B	Total/NA
Manganese	98		0.57	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	20		0.57	0.15	mg/Kg	1	*	6010B	Total/NA
Potassium	490		28	4.6	mg/Kg	1	*	6010B	Total/NA
Selenium	0.33	J	0.57	0.28	mg/Kg	1	*	6010B	Total/NA
Sodium	69		57	7.5	mg/Kg	1	*	6010B	Total/NA
Thallium	0.62		0.57	0.28	mg/Kg	1	*	6010B	Total/NA
Vanadium	55		0.28	0.083	mg/Kg	1	*	6010B	Total/NA
Zinc	27		1.1	0.36	mg/Kg	1	*	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.071	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.010		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.077	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0099	mg/Kg	1	*	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.062		0.022	0.0094	mg/Kg	1	*	8260B	Total/NA
2-Butanone (MEK)	0.011		0.0054	0.0024	mg/Kg	1	*	8260B	Total/NA
Naphthalene	0.013	J	0.040	0.0061	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.017	J	0.080	0.0073	mg/Kg	1	*	8270D	Total/NA
Acenaphthylene	0.0059	J	0.040	0.0053	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.0084	J	0.040	0.0056	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.11		0.040	0.0056	mg/Kg	1	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6) (Continued)

Lab Sample ID: 500-121121-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.022	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.077		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.074		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.042		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.069		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.0	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.9		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	41000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	78		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Silver	0.084	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.96		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	1100		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.95		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.27	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.12		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.054		0.023	0.010	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.012		0.0058	0.0026	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.017	J	0.044	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.044	0.0081	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11) (Continued)

Lab Sample ID: 500-121121-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.013	J	0.044	0.0087	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.0		0.65	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.65	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.26	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	6.8		3.2	0.45	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.13	0.038	mg/Kg	1	☼	6010B	Total/NA
Calcium	8400	B	13	4.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.6	B	0.65	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.32	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	8.7		0.65	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		13	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700	B	6.5	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.65	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.65	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		32	5.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		65	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.32	0.095	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.22	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	5.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-G01

Lab Sample ID: 500-121121-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	0.00032	J	0.0017	0.00030	mg/L	1		8270D	Total/NA
Arsenic	0.0015		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.31		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Boron	1.5		0.25	0.12	mg/L	5		6020A	Total Recoverable
Calcium	230		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.00098	J	0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0013		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.0018	J	0.0020	0.00096	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-G01 (Continued)

Lab Sample ID: 500-121121-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	29		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.0040		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	37		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	3.0		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.0075		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	21		0.50	0.19	mg/L	1		6020A	Total Recoverable
Sodium	230		0.20	0.088	mg/L	1		6020A	Total Recoverable
Zinc	0.027		0.020	0.0046	mg/L	1		6020A	Total Recoverable

Client Sample ID: 1314V3-00-TB01

Lab Sample ID: 500-121121-6

No Detections.

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.040		0.019	0.0083	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0072		0.0048	0.0021	mg/Kg	1	☼	8260B	Total/NA
Diethyl phthalate	0.22		0.20	0.067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.034	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.87		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8) (Continued)

Lab Sample ID: 500-121121-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.071	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.17		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.053		0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0096		0.0045	0.0020	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0080	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0082	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.028	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.026	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	0.15	J	0.20	0.067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.082		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.019	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.045		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.065		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.035	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	7.0		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.58		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	34000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	760		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Silver	0.068	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		58	7.7	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8) (Continued)

Lab Sample ID: 500-121121-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.22	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.87		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.18		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	9.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.072		0.018	0.0077	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.013		0.0044	0.0020	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.080		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.063	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.016	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.22		0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.10	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.22		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	2.3		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.65		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.44		0.19	0.097	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.4		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.4		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.4		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.8		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.68		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.2		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.46		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.14		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.44		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene - DL	4.1		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.49	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	5.8		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.51		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	29000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6) (Continued)

Lab Sample ID: 500-121121-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3500	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	190		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.56		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.94		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.060		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.033		0.021	0.0091	mg/Kg	1	☼	8260B	Total/NA
Diethyl phthalate	0.11	J	0.21	0.069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0069	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0099	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0096	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.3		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	3.2		3.2	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Calcium	4000	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.32	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000	B	6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	710		0.63	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	600		63	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.32	0.093	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12) (Continued)

Lab Sample ID: 500-121121-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.26	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.058		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.27		0.022	0.011	mg/Kg	1	*	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.090		0.021	0.0094	mg/Kg	1	*	8260B	Total/NA
2-Butanone (MEK)	0.020		0.0054	0.0024	mg/Kg	1	*	8260B	Total/NA
Naphthalene	0.077		0.038	0.0059	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.083		0.078	0.0071	mg/Kg	1	*	8270D	Total/NA
Acenaphthylene	0.038		0.038	0.0051	mg/Kg	1	*	8270D	Total/NA
Acenaphthene	0.086		0.038	0.0069	mg/Kg	1	*	8270D	Total/NA
Dibenzofuran	0.062	J	0.19	0.045	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.11		0.038	0.0054	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	1.1		0.038	0.0054	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.28		0.038	0.0064	mg/Kg	1	*	8270D	Total/NA
Carbazole	0.12	J	0.19	0.096	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	1.1		0.038	0.0071	mg/Kg	1	*	8270D	Total/NA
Pyrene	1.0		0.038	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.51		0.038	0.0052	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.49		0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.54		0.038	0.0083	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.43		0.038	0.0075	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.043		0.038	0.0075	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	1	*	8270D	Total/NA
Antimony	4.7		1.1	0.23	mg/Kg	1	*	6010B	Total/NA
Arsenic	8.4		0.56	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	120		0.56	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.55		0.22	0.048	mg/Kg	1	*	6010B	Total/NA
Boron	6.2		2.8	0.39	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.49		0.11	0.032	mg/Kg	1	*	6010B	Total/NA
Calcium	7500	B	11	3.6	mg/Kg	1	*	6010B	Total/NA
Chromium	17	B	0.56	0.096	mg/Kg	1	*	6010B	Total/NA
Cobalt	8.5		0.28	0.063	mg/Kg	1	*	6010B	Total/NA
Copper	35		0.56	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	33000		11	4.3	mg/Kg	1	*	6010B	Total/NA
Lead	41		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	3700	B	5.6	2.3	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (0-6) (Continued)

Lab Sample ID: 500-121121-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	370		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0079		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.025		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	8.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.071		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.67		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.16		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.097		0.027	0.012	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.020		0.0069	0.0030	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.042		0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.039	J	0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0053	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.11		0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.080	J	0.20	0.047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.10		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.1		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.28		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.13	J	0.20	0.10	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.0		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.91		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.47		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.41		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.47		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.37		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.038	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.68	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	4.1		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12) (Continued)

Lab Sample ID: 500-121121-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.26		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	9800	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	57		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Silver	0.070	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.19	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.025		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	6.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.51		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.47		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	0.076	J	0.19	0.065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.022	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.074		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.076		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.083		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.066		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8) (Continued)

Lab Sample ID: 500-121121-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	77		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	4.9		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	42		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	980		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.67		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	88		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.054		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.20		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0056	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	5800	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3400	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15) (Continued)

Lab Sample ID: 500-121121-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	930		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.97		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0069	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0082	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	6400	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	8.1		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	920		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.92		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.097		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.019	J	0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0052	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.046		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0088	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.084		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.076		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6) (Continued)

Lab Sample ID: 500-121121-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.067		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	4.8		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	49		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5100	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	940		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.87		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	5.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.18		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	2.4	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	3200	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12) (Continued)

Lab Sample ID: 500-121121-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.1		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	7.2		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	870		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J B	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.011	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.032	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.057		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.053		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.023	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.034	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.038	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.026	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	7400	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1900	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	880		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.91		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4) (Continued)

Lab Sample ID: 500-121121-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	41		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.27	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	2500	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.29	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	7.4		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	770		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	660		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.050	J B	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.022		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.060		0.019	0.0083	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.010		0.0048	0.0021	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.020	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.027	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.014	J	0.040	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.010	J	0.040	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.032	J	0.040	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.20		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6) (Continued)

Lab Sample ID: 500-121121-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.18		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.055		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.097		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.67	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.65		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	37		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	96		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8300	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.22	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.31	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.036		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.44		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.076		0.027	0.012	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.014		0.0067	0.0030	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.042	J	0.058	0.0090	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.12	0.011	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.052	J	0.058	0.0077	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11) (Continued)

Lab Sample ID: 500-121121-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.088		0.058	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.092		0.058	0.0082	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.058	0.0081	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.11		0.058	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.62		0.058	0.011	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.58		0.058	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.25		0.058	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.23		0.058	0.016	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.058	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.058	0.017	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.23		0.058	0.011	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.058	0.015	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.053	J	0.058	0.019	mg/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	0.17	J	0.29	0.097	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.87	J	1.8	0.37	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.89	0.41	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.89	0.16	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.96		0.35	0.077	mg/Kg	1	☼	6010B	Total/NA
Boron	43		4.4	0.62	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.82		0.18	0.051	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		18	5.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.89	0.15	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.44	0.10	mg/Kg	1	☼	6010B	Total/NA
Copper	39		0.89	0.19	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	18	6.8	mg/Kg	1	☼	6010B	Total/NA
Lead	140		0.44	0.22	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		8.9	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.89	0.18	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.89	0.24	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		44	7.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.93		0.89	0.44	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.44	0.10	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		89	12	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.44	0.13	mg/Kg	1	☼	6010B	Total/NA
Zinc	730		1.8	0.56	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.43	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.4		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.86		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.052		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.22		0.026	0.014	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-04-G01

Lab Sample ID: 500-121121-22

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-G01 (Continued)

Lab Sample ID: 500-121121-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00076		0.00013	0.000044	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.00086		0.00016	0.000077	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0011		0.00016	0.000063	mg/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.00036	J	0.00078	0.00029	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.00042		0.00016	0.000050	mg/L	1		8270D	Total/NA
Chrysene	0.00073		0.00016	0.000053	mg/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.00012	J	0.00023	0.000040	mg/L	1		8270D	Total/NA
Fluoranthene	0.0010		0.00078	0.00036	mg/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.00047		0.00016	0.000058	mg/L	1		8270D	Total/NA
Pyrene	0.0010		0.00078	0.00033	mg/L	1		8270D	Total/NA
Arsenic	0.011		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.25		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.00034	J	0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Boron	1.1		0.10	0.049	mg/L	2		6020A	Total Recoverable
Cadmium	0.00024	J	0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	190		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.012		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0023		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.0054		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	28		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.060		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	34		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	2.0		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.010		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	15		0.50	0.19	mg/L	1		6020A	Total Recoverable
Selenium	0.0020	J	0.0025	0.00083	mg/L	1		6020A	Total Recoverable
Sodium	100		0.20	0.088	mg/L	1		6020A	Total Recoverable
Vanadium	0.0081		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.13		0.020	0.0046	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method	Method Description	Protocol	Laboratory
8260B	VOC	SW846	TAL CHI
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7470A	Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121121-1	1314V3-08-B01 (0-6)	Solid	12/06/16 08:15	12/07/16 13:30
500-121121-2	1314V3-08-B01 (6-12)	Solid	12/06/16 08:20	12/07/16 13:30
500-121121-3	1314V3-01-B01 (0-6)	Solid	12/06/16 08:55	12/07/16 13:30
500-121121-4	1314V3-01-B01 (6-11)	Solid	12/06/16 09:00	12/07/16 13:30
500-121121-5	1314V3-01-G01	Water	12/06/16 09:15	12/07/16 13:30
500-121121-6	1314V3-00-TB01	Water	12/06/16 00:00	12/07/16 13:30
500-121121-7	1314V3-01-B02 (0-8)	Solid	12/06/16 10:55	12/07/16 13:30
500-121121-8	1314V3-01-B03 (0-8)	Solid	12/06/16 11:40	12/07/16 13:30
500-121121-9	1314V3-01-B04 (0-6)	Solid	12/06/16 12:10	12/07/16 13:30
500-121121-10	1314V3-01-B04 (6-12)	Solid	12/06/16 12:15	12/07/16 13:30
500-121121-11	1314V3-01-B05 (0-6)	Solid	12/06/16 12:40	12/07/16 13:30
500-121121-12	1314V3-01-B05 (6-12)	Solid	12/06/16 12:45	12/07/16 13:30
500-121121-13	1314V3-01-B06 (0-8)	Solid	12/06/16 15:00	12/07/16 13:30
500-121121-14	1314V3-01-B06 (8-15)	Solid	12/06/16 15:05	12/07/16 13:30
500-121121-15	1314V3-01-B06 (8-15)D	Solid	12/06/16 15:05	12/07/16 13:30
500-121121-16	1314V3-01-B07 (0-6)	Solid	12/06/16 15:35	12/07/16 13:30
500-121121-17	1314V3-01-B07 (6-12)	Solid	12/06/16 15:40	12/07/16 13:30
500-121121-18	1314V3-01-B08 (0-4)	Solid	12/06/16 16:15	12/07/16 13:30
500-121121-19	1314V3-01-B08 (4-9)	Solid	12/06/16 16:20	12/07/16 13:30
500-121121-20	1314V3-04-B01 (0-6)	Solid	12/06/16 10:00	12/07/16 13:30
500-121121-21	1314V3-04-B01 (6-11)	Solid	12/06/16 10:05	12/07/16 13:30
500-121121-22	1314V3-04-G01	Water	12/06/16 10:15	12/07/16 13:30

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.11		0.022	0.0097	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
2-Butanone (MEK)	0.022		0.0055	0.0025	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Carbon disulfide	<0.0055		0.0055	0.0012	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,1-Dichloroethene	<0.0022		0.0022	0.00076	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00078	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,1,1,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Tetrachloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00098	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00095	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Vinyl chloride	<0.0022		0.0022	0.00098	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1
Xylenes, Total	<0.0044		0.0044	0.00071	mg/Kg	☼	12/07/16 18:00	12/08/16 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	12/07/16 18:00	12/08/16 22:08	1
Dibromofluoromethane	118		75 - 120	12/07/16 18:00	12/08/16 22:08	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134	12/07/16 18:00	12/08/16 22:08	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/08/16 22:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Bis(2-chloroethyl)ether	<0.21	F1	0.21	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Hexachloroethane	<0.21	F1	0.21	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Naphthalene	0.030	J	0.042	0.0065	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4,6-Trichlorophenol	<0.42	F2	0.42	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4,5-Trichlorophenol	<0.42	F2	0.42	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Hexachlorocyclopentadiene	<0.85	F1	0.85	0.24	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Methylnaphthalene	0.016	J	0.085	0.0078	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4-Dinitrophenol	<0.85	F1	0.85	0.75	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Acenaphthylene	0.049		0.042	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Acenaphthene	0.013	J	0.042	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Fluorene	0.030	J	0.042	0.0060	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Phenanthrene	0.38		0.042	0.0059	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Anthracene	0.072		0.042	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Fluoranthene	0.63		0.042	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Pyrene	0.48		0.042	0.0084	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Benzo[a]anthracene	0.24		0.042	0.0057	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.26		0.042	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
3,3'-Dichlorobenzidine	<0.21	F1	0.21	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Benzo[b]fluoranthene	0.33		0.042	0.0091	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Benzo[k]fluoranthene	0.15		0.042	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Benzo[a]pyrene	0.24		0.042	0.0082	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Indeno[1,2,3-cd]pyrene	0.094	F1	0.042	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Dibenz(a,h)anthracene	0.027	J F1	0.042	0.0082	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Benzo[g,h,i]perylene	0.095	F1	0.042	0.014	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
3 & 4 Methylphenol	<0.21	F2	0.21	0.071	mg/Kg	☼	12/14/16 07:31	12/15/16 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130				12/14/16 07:31	12/15/16 05:26	1
Phenol-d5	107		36 - 123				12/14/16 07:31	12/15/16 05:26	1
Nitrobenzene-d5	93		33 - 124				12/14/16 07:31	12/15/16 05:26	1
2-Fluorobiphenyl	88		42 - 115				12/14/16 07:31	12/15/16 05:26	1
2,4,6-Tribromophenol	82		25 - 130				12/14/16 07:31	12/15/16 05:26	1
Terphenyl-d14	96		25 - 150				12/14/16 07:31	12/15/16 05:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J F1	1.2	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Arsenic	2.8		0.60	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Barium	51		0.60	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Beryllium	0.60		0.24	0.052	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Boron	13		3.0	0.42	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Cadmium	0.27		0.12	0.035	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Calcium	37000	B	12	3.9	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Chromium	10	B	0.60	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Cobalt	4.6		0.30	0.068	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Copper	15		0.60	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Iron	13000	F2	12	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Lead	38		0.30	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Magnesium	1400	B F1	6.0	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Manganese	230		0.60	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Nickel	11		0.60	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Potassium	1200	F1	30	4.9	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Sodium	170		60	7.9	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Thallium	0.66		0.60	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Vanadium	18		0.30	0.087	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1
Zinc	100	F1 F2	1.2	0.38	mg/Kg	☼	12/10/16 10:01	12/12/16 01:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 02:53	1
Boron	0.30	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Cobalt	0.014	J	0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Iron	<0.40		0.40	0.20	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Lead	0.016		0.0075	0.0075	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Manganese	2.4		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Nickel	0.019	J	0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Silver	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 02:53	1
Zinc	0.62		0.50	0.020	mg/L	-	12/13/16 08:02	12/14/16 02:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.038		0.0075	0.0075	mg/L	-	12/12/16 09:10	12/14/16 05:44	1
Manganese	0.12		0.025	0.010	mg/L	-	12/12/16 09:10	12/14/16 05:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0083		0.0060	0.0060	mg/L	-	12/13/16 08:02	12/13/16 18:50	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/13/16 08:02	12/13/16 18:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/12/16 09:10	12/14/16 13:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 12:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.021	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU	-		12/09/16 20:20	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.019	0.0082	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/07/16 18:00	12/08/16 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/07/16 18:00	12/08/16 22:34	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/08/16 22:34	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 134	12/07/16 18:00	12/08/16 22:34	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/08/16 22:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Diethyl phthalate	0.29		0.19	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		40 - 130	12/14/16 07:31	12/15/16 00:53	1
Phenol-d5	93		36 - 123	12/14/16 07:31	12/15/16 00:53	1
Nitrobenzene-d5	88		33 - 124	12/14/16 07:31	12/15/16 00:53	1
2-Fluorobiphenyl	79		42 - 115	12/14/16 07:31	12/15/16 00:53	1
2,4,6-Tribromophenol	67		25 - 130	12/14/16 07:31	12/15/16 00:53	1
Terphenyl-d14	92		25 - 150	12/14/16 07:31	12/15/16 00:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Arsenic	11		0.57	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Barium	37		0.57	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Beryllium	0.53		0.23	0.049	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Boron	2.3	J	2.8	0.40	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Cadmium	0.89		0.11	0.033	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Calcium	2400	B	11	3.7	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Chromium	12	B	0.57	0.098	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Cobalt	6.8		0.28	0.064	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Copper	36		0.57	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Iron	17000		11	4.4	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Lead	4.0		0.28	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Magnesium	1200	B	5.7	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Manganese	98		0.57	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Nickel	20		0.57	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Potassium	490		28	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Selenium	0.33	J	0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Sodium	69		57	7.5	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Thallium	0.62		0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Vanadium	55		0.28	0.083	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1
Zinc	27		1.1	0.36	mg/Kg	☼	12/10/16 10:01	12/12/16 02:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 02:57	1
Boron	0.071	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.010		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 02:57	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:57	1
Cobalt	0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:57	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 02:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 02:57	1
Manganese	0.75		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:57	1
Nickel	0.055		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:57	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 02:57	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:57	1
Zinc	0.077	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 02:57	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0034	J	0.0050	0.0020	mg/L		12/12/16 09:10	12/14/16 06:27	1
Manganese	0.13		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 06:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 18:54	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 18:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0099	mg/Kg	☼	12/09/16 15:45	12/12/16 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/09/16 20:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.062		0.022	0.0094	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
2-Butanone (MEK)	0.011		0.0054	0.0024	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	12/07/16 18:00	12/08/16 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 120	12/07/16 18:00	12/08/16 23:00	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/08/16 23:00	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 134	12/07/16 18:00	12/08/16 23:00	1
Toluene-d8 (Surr)	114		75 - 123	12/07/16 18:00	12/08/16 23:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Naphthalene	0.013	J	0.040	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Methylnaphthalene	0.017	J	0.080	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Acenaphthylene	0.0059	J	0.040	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Fluorene	0.0084	J	0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Phenanthrene	0.11		0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Anthracene	0.022	J	0.040	0.0067	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Fluoranthene	0.16		0.040	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Pyrene	0.14		0.040	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Benzo[a]anthracene	0.077		0.040	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.074		0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Benzo[b]fluoranthene	0.090		0.040	0.0086	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Benzo[k]fluoranthene	0.042		0.040	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Benzo[a]pyrene	0.069		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Indeno[1,2,3-cd]pyrene	0.026 J		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
Benzo[g,h,i]perylene	0.029 J		0.040	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/14/16 07:31	12/15/16 05:53	1
Phenol-d5	81		36 - 123	12/14/16 07:31	12/15/16 05:53	1
Nitrobenzene-d5	84		33 - 124	12/14/16 07:31	12/15/16 05:53	1
2-Fluorobiphenyl	80		42 - 115	12/14/16 07:31	12/15/16 05:53	1
2,4,6-Tribromophenol	73		25 - 130	12/14/16 07:31	12/15/16 05:53	1
Terphenyl-d14	87		25 - 150	12/14/16 07:31	12/15/16 05:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0 J		1.1	0.23	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Arsenic	4.2		0.56	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Barium	83		0.56	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Beryllium	0.66		0.22	0.049	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Boron	15		2.8	0.39	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Cadmium	1.9		0.11	0.033	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Calcium	41000 B		11	3.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Chromium	10 B		0.56	0.097	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Cobalt	5.7		0.28	0.064	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Copper	25		0.56	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Iron	18000		11	4.3	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Lead	78		0.28	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Magnesium	2300 B		5.6	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Manganese	430		0.56	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Nickel	13		0.56	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Potassium	1200		28	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Silver	0.084 J		0.28	0.066	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Sodium	380		56	7.4	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Thallium	0.96		0.56	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Vanadium	17		0.28	0.082	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1
Zinc	1100		1.1	0.36	mg/Kg	☼	12/10/16 10:01	12/12/16 02:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.95		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:02	1
Boron	0.27 J B		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 03:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:02	1
Cobalt	0.023	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:02	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 03:02	1
Lead	0.014		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 03:02	1
Manganese	3.3		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:02	1
Nickel	0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:02	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 03:02	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:02	1
Zinc	0.23	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 03:02	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 06:33	1
Manganese	0.020	J	0.025	0.010	mg/L		12/12/16 09:10	12/14/16 06:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 18:58	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 18:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.019	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/09/16 20:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 75.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.054		0.023	0.010	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Benzene	<0.0023		0.0023	0.00060	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Bromodichloromethane	<0.0023		0.0023	0.00048	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Bromoform	<0.0023		0.0023	0.00068	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
2-Butanone (MEK)	0.012		0.0058	0.0026	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Carbon tetrachloride	<0.0023		0.0023	0.00068	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Chlorobenzene	<0.0023		0.0023	0.00086	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Chloroethane	<0.0058		0.0058	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Chloroform	<0.0023		0.0023	0.00081	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Chloromethane	<0.0058		0.0058	0.0023	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00070	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Dibromochloromethane	<0.0023		0.0023	0.00076	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,1-Dichloroethane	<0.0023		0.0023	0.00080	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,1-Dichloroethene	<0.0023		0.0023	0.00080	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00082	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00069	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Styrene	<0.0023		0.0023	0.00071	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Tetrachloroethene	<0.0023		0.0023	0.00080	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Toluene	<0.0023		0.0023	0.00059	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00082	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.0010	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Trichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Vinyl acetate	<0.0058		0.0058	0.0020	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1
Xylenes, Total	<0.0047		0.0047	0.00075	mg/Kg	☼	12/07/16 18:00	12/08/16 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 120	12/07/16 18:00	12/08/16 23:26	1
Dibromofluoromethane	115		75 - 120	12/07/16 18:00	12/08/16 23:26	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 134	12/07/16 18:00	12/08/16 23:26	1
Toluene-d8 (Surr)	110		75 - 123	12/07/16 18:00	12/08/16 23:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
1,4-Dichlorobenzene	<0.22		0.22	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 75.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Methylphenol	<0.22		0.22	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
N-Nitrosodi-n-propylamine	<0.088		0.088	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Naphthalene	<0.044		0.044	0.0067	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4-Dichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Chloroaniline	<0.88		0.88	0.21	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Hexachlorocyclopentadiene	<0.88		0.88	0.25	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Methylnaphthalene	<0.088		0.088	0.0081	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,6-Dinitrotoluene	<0.22		0.22	0.086	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Dimethyl phthalate	<0.22		0.22	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4-Dinitrophenol	<0.88		0.88	0.77	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Nitrophenol	<0.88		0.88	0.42	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Fluorene	<0.044		0.044	0.0062	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Hexachlorobenzene	<0.088		0.088	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Diethyl phthalate	<0.22		0.22	0.074	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Pentachlorophenol	<0.88		0.88	0.70	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
4,6-Dinitro-2-methylphenol	<0.88		0.88	0.35	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Phenanthrene	0.017	J	0.044	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Anthracene	<0.044		0.044	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Fluoranthene	0.016	J	0.044	0.0081	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Pyrene	0.013	J	0.044	0.0087	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Butyl benzyl phthalate	<0.22		0.22	0.083	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Benzo[a]anthracene	<0.044		0.044	0.0059	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 75.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.044		0.044	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.080	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Di-n-octyl phthalate	<0.22		0.22	0.071	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Benzo[b]fluoranthene	<0.044		0.044	0.0095	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Benzo[a]pyrene	<0.044		0.044	0.0085	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0085	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
Benzo[g,h,i]perylene	<0.044		0.044	0.014	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1
3 & 4 Methylphenol	<0.22		0.22	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/14/16 07:31	12/15/16 06:20	1
Phenol-d5	92		36 - 123	12/14/16 07:31	12/15/16 06:20	1
Nitrobenzene-d5	81		33 - 124	12/14/16 07:31	12/15/16 06:20	1
2-Fluorobiphenyl	75		42 - 115	12/14/16 07:31	12/15/16 06:20	1
2,4,6-Tribromophenol	69		25 - 130	12/14/16 07:31	12/15/16 06:20	1
Terphenyl-d14	84		25 - 150	12/14/16 07:31	12/15/16 06:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.3	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Arsenic	2.0		0.65	0.30	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Barium	49		0.65	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Beryllium	0.37		0.26	0.056	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Boron	6.8		3.2	0.45	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Cadmium	0.15		0.13	0.038	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Calcium	8400	B	13	4.2	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Chromium	8.6	B	0.65	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Cobalt	4.8		0.32	0.073	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Copper	8.7		0.65	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Iron	13000		13	5.0	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Lead	13		0.32	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Magnesium	3700	B	6.5	2.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Manganese	300		0.65	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Nickel	12		0.65	0.18	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Potassium	650		32	5.3	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Selenium	0.37	J	0.65	0.32	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Silver	<0.32		0.32	0.076	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Sodium	180		65	8.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Thallium	0.68		0.65	0.32	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Vanadium	15		0.32	0.095	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1
Zinc	48		1.3	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 02:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:07	1
Boron	0.22	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 75.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Cobalt	0.036		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Iron	<0.40		0.40	0.20	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Manganese	5.3		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Nickel	0.040		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Silver	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:07	1
Zinc	0.15	J	0.50	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.077		0.025	0.010	mg/L	-	12/12/16 09:10	12/14/16 06:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/13/16 08:02	12/13/16 19:02	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/13/16 08:02	12/13/16 19:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/09/16 20:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-G01

Lab Sample ID: 500-121121-5

Date Collected: 12/06/16 09:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/13/16 11:27	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:27	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:27	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/13/16 11:27	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/13/16 11:27	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/13/16 11:27	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:27	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:27	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/13/16 11:27	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:27	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/13/16 11:27	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:27	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:27	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/13/16 11:27	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:27	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:27	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:27	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/13/16 11:27	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:27	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/13/16 11:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:27	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:27	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/13/16 11:27	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/13/16 11:27	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:27	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:27	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/13/16 11:27	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:27	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:27	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:27	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/13/16 11:27	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:27	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:27	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/13/16 11:27	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/13/16 11:27	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/13/16 11:27	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/13/16 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		71 - 120		12/13/16 11:27	1
Dibromofluoromethane	90		70 - 120		12/13/16 11:27	1
1,2-Dichloroethane-d4 (Surr)	89		71 - 127		12/13/16 11:27	1
Toluene-d8 (Surr)	92		75 - 120		12/13/16 11:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0017		0.0017	0.00020	mg/L		12/08/16 07:23	12/09/16 01:05	1
1,2-Dichlorobenzene	<0.0017		0.0017	0.00021	mg/L		12/08/16 07:23	12/09/16 01:05	1
1,3-Dichlorobenzene	<0.0017		0.0017	0.00017	mg/L		12/08/16 07:23	12/09/16 01:05	1
1,4-Dichlorobenzene	<0.0017		0.0017	0.00017	mg/L		12/08/16 07:23	12/09/16 01:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-G01

Lab Sample ID: 500-121121-5

Date Collected: 12/06/16 09:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0017		0.0017	0.00032	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4,5-Trichlorophenol	<0.0083		0.0083	0.0021	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4,6-Trichlorophenol	<0.0042		0.0042	0.00060	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4-Dichlorophenol	<0.0083		0.0083	0.0022	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4-Dimethylphenol	<0.0083		0.0083	0.0015	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4-Dinitrophenol	<0.017		0.017	0.0072	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,4-Dinitrotoluene	<0.00083		0.00083	0.00020	mg/L		12/08/16 07:23	12/09/16 01:05	1
2,6-Dinitrotoluene	<0.00083		0.00083	0.000061	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Chloronaphthalene	<0.0017		0.0017	0.00020	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Chlorophenol	<0.0042		0.0042	0.00047	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Methylnaphthalene	<0.0017		0.0017	0.000054	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Methylphenol	<0.0017		0.0017	0.00025	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Nitroaniline	<0.0042		0.0042	0.0011	mg/L		12/08/16 07:23	12/09/16 01:05	1
2-Nitrophenol	<0.0083		0.0083	0.0021	mg/L		12/08/16 07:23	12/09/16 01:05	1
3 & 4 Methylphenol	<0.0017		0.0017	0.00037	mg/L		12/08/16 07:23	12/09/16 01:05	1
3,3'-Dichlorobenzidine	<0.0042		0.0042	0.0014	mg/L		12/08/16 07:23	12/09/16 01:05	1
3-Nitroaniline	<0.0083		0.0083	0.0015	mg/L		12/08/16 07:23	12/09/16 01:05	1
4,6-Dinitro-2-methylphenol	<0.017		0.017	0.0049	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Bromophenyl phenyl ether	<0.0042		0.0042	0.00045	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Chloro-3-methylphenol	<0.0083		0.0083	0.0019	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Chloroaniline	<0.0083		0.0083	0.0017	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Chlorophenyl phenyl ether	<0.0042		0.0042	0.00053	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Nitroaniline	<0.0083		0.0083	0.0014	mg/L		12/08/16 07:23	12/09/16 01:05	1
4-Nitrophenol	<0.017		0.017	0.0062	mg/L		12/08/16 07:23	12/09/16 01:05	1
Acenaphthene	<0.00083		0.00083	0.00026	mg/L		12/08/16 07:23	12/09/16 01:05	1
Acenaphthylene	<0.00083		0.00083	0.00022	mg/L		12/08/16 07:23	12/09/16 01:05	1
Anthracene	<0.00083		0.00083	0.00028	mg/L		12/08/16 07:23	12/09/16 01:05	1
Benzo[a]anthracene	<0.00014		0.00014	0.000047	mg/L		12/08/16 07:23	12/09/16 01:05	1
Benzo[a]pyrene	<0.00017		0.00017	0.000082	mg/L		12/08/16 07:23	12/09/16 01:05	1
Benzo[b]fluoranthene	<0.00017		0.00017	0.000067	mg/L		12/08/16 07:23	12/09/16 01:05	1
Benzo[g,h,i]perylene	<0.00083		0.00083	0.00031	mg/L		12/08/16 07:23	12/09/16 01:05	1
Benzo[k]fluoranthene	<0.00017		0.00017	0.000053	mg/L		12/08/16 07:23	12/09/16 01:05	1
Bis(2-chloroethoxy)methane	<0.0017		0.0017	0.00024	mg/L		12/08/16 07:23	12/09/16 01:05	1
Bis(2-chloroethyl)ether	<0.0017		0.0017	0.00024	mg/L		12/08/16 07:23	12/09/16 01:05	1
Bis(2-ethylhexyl) phthalate	<0.0083		0.0083	0.0014	mg/L		12/08/16 07:23	12/09/16 01:05	1
Butyl benzyl phthalate	<0.0017		0.0017	0.00040	mg/L		12/08/16 07:23	12/09/16 01:05	1
Carbazole	<0.0042		0.0042	0.00029	mg/L		12/08/16 07:23	12/09/16 01:05	1
Chrysene	<0.00017		0.00017	0.000057	mg/L		12/08/16 07:23	12/09/16 01:05	1
Dibenz(a,h)anthracene	<0.00025		0.00025	0.000042	mg/L		12/08/16 07:23	12/09/16 01:05	1
Dibenzofuran	<0.0017		0.0017	0.00022	mg/L		12/08/16 07:23	12/09/16 01:05	1
Diethyl phthalate	0.00032	J	0.0017	0.00030	mg/L		12/08/16 07:23	12/09/16 01:05	1
Dimethyl phthalate	<0.0017		0.0017	0.00026	mg/L		12/08/16 07:23	12/09/16 01:05	1
Di-n-butyl phthalate	<0.0042		0.0042	0.00061	mg/L		12/08/16 07:23	12/09/16 01:05	1
Di-n-octyl phthalate	<0.0083		0.0083	0.00087	mg/L		12/08/16 07:23	12/09/16 01:05	1
Fluoranthene	<0.00083		0.00083	0.00038	mg/L		12/08/16 07:23	12/09/16 01:05	1
Fluorene	<0.00083		0.00083	0.00020	mg/L		12/08/16 07:23	12/09/16 01:05	1
Hexachlorobenzene	<0.00042		0.00042	0.000066	mg/L		12/08/16 07:23	12/09/16 01:05	1
Hexachlorobutadiene	<0.0042		0.0042	0.00043	mg/L		12/08/16 07:23	12/09/16 01:05	1
Hexachlorocyclopentadiene	<0.017		0.017	0.0053	mg/L		12/08/16 07:23	12/09/16 01:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-G01

Lab Sample ID: 500-121121-5

Date Collected: 12/06/16 09:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0042		0.0042	0.00050	mg/L		12/08/16 07:23	12/09/16 01:05	1
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017	0.000062	mg/L		12/08/16 07:23	12/09/16 01:05	1
Isophorone	<0.0017		0.0017	0.00031	mg/L		12/08/16 07:23	12/09/16 01:05	1
Naphthalene	<0.00083		0.00083	0.00026	mg/L		12/08/16 07:23	12/09/16 01:05	1
Nitrobenzene	<0.00083		0.00083	0.00037	mg/L		12/08/16 07:23	12/09/16 01:05	1
N-Nitrosodi-n-propylamine	<0.00042		0.00042	0.00013	mg/L		12/08/16 07:23	12/09/16 01:05	1
N-Nitrosodiphenylamine	<0.00083		0.00083	0.00031	mg/L		12/08/16 07:23	12/09/16 01:05	1
Pentachlorophenol	<0.017		0.017	0.0033	mg/L		12/08/16 07:23	12/09/16 01:05	1
Phenanthrene	<0.00083		0.00083	0.00025	mg/L		12/08/16 07:23	12/09/16 01:05	1
Phenol	<0.0042		0.0042	0.00056	mg/L		12/08/16 07:23	12/09/16 01:05	1
Pyrene	<0.00083		0.00083	0.00035	mg/L		12/08/16 07:23	12/09/16 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		30 - 150	12/08/16 07:23	12/09/16 01:05	1
2-Fluorobiphenyl	58		30 - 123	12/08/16 07:23	12/09/16 01:05	1
2-Fluorophenol	53		30 - 110	12/08/16 07:23	12/09/16 01:05	1
Nitrobenzene-d5	60		33 - 139	12/08/16 07:23	12/09/16 01:05	1
Phenol-d5	43		20 - 100	12/08/16 07:23	12/09/16 01:05	1
Terphenyl-d14	95		42 - 150	12/08/16 07:23	12/09/16 01:05	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010	0.00044	mg/L		12/08/16 08:28	12/08/16 16:39	1
Barium	0.31		0.0025	0.00084	mg/L		12/08/16 08:28	12/08/16 16:39	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		12/08/16 08:28	12/08/16 16:39	1
Boron	1.5		0.25	0.12	mg/L		12/08/16 08:28	12/09/16 12:17	5
Cadmium	<0.00050		0.00050	0.00019	mg/L		12/08/16 08:28	12/09/16 14:04	1
Calcium	230		0.20	0.11	mg/L		12/08/16 08:28	12/08/16 16:39	1
Chromium	0.00098	J	0.0050	0.00061	mg/L		12/08/16 08:28	12/08/16 16:39	1
Cobalt	0.0013		0.0010	0.00019	mg/L		12/08/16 08:28	12/08/16 16:39	1
Copper	0.0018	J	0.0020	0.00096	mg/L		12/08/16 08:28	12/08/16 16:39	1
Iron	29		0.10	0.026	mg/L		12/08/16 08:28	12/08/16 16:39	1
Lead	0.0040		0.00050	0.00014	mg/L		12/08/16 08:28	12/08/16 16:39	1
Magnesium	37		0.20	0.083	mg/L		12/08/16 08:28	12/08/16 16:39	1
Manganese	3.0		0.0025	0.00099	mg/L		12/08/16 08:28	12/08/16 16:39	1
Nickel	0.0075		0.0020	0.00053	mg/L		12/08/16 08:28	12/08/16 16:39	1
Potassium	21		0.50	0.19	mg/L		12/08/16 08:28	12/08/16 16:39	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/08/16 08:28	12/09/16 14:04	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/08/16 08:28	12/08/16 16:39	1
Sodium	230		0.20	0.088	mg/L		12/08/16 08:28	12/08/16 16:39	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/08/16 08:28	12/08/16 16:39	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		12/08/16 08:28	12/08/16 16:39	1
Zinc	0.027		0.020	0.0046	mg/L		12/08/16 08:28	12/08/16 16:39	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/12/16 14:00	12/14/16 09:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-00-TB01

Lab Sample ID: 500-121121-6

Date Collected: 12/06/16 00:00

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/13/16 11:54	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:54	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:54	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/13/16 11:54	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/13/16 11:54	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/13/16 11:54	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:54	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:54	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/13/16 11:54	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:54	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/13/16 11:54	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:54	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:54	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/13/16 11:54	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:54	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:54	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:54	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/13/16 11:54	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:54	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/13/16 11:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:54	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:54	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/13/16 11:54	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/13/16 11:54	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:54	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:54	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/13/16 11:54	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:54	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:54	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:54	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/13/16 11:54	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:54	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:54	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/13/16 11:54	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/13/16 11:54	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/13/16 11:54	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/13/16 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		71 - 120		12/13/16 11:54	1
Dibromofluoromethane	91		70 - 120		12/13/16 11:54	1
1,2-Dichloroethane-d4 (Surr)	90		71 - 127		12/13/16 11:54	1
Toluene-d8 (Surr)	93		75 - 120		12/13/16 11:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.040		0.019	0.0083	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
2-Butanone (MEK)	0.0072		0.0048	0.0021	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/07/16 18:00	12/08/16 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/07/16 18:00	12/08/16 23:52	1
Dibromofluoromethane	119		75 - 120	12/07/16 18:00	12/08/16 23:52	1
1,2-Dichloroethane-d4 (Surr)	126		69 - 134	12/07/16 18:00	12/08/16 23:52	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/08/16 23:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Diethyl phthalate	0.22		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Phenanthrene	0.026 J		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Fluoranthene	0.036 J		0.039	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Pyrene	0.034 J		0.039	0.0078	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Benzo[a]anthracene	0.012 J		0.039	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Benzo[a]pyrene	0.015	J	0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130	12/14/16 07:31	12/15/16 01:21	1
Phenol-d5	93		36 - 123	12/14/16 07:31	12/15/16 01:21	1
Nitrobenzene-d5	79		33 - 124	12/14/16 07:31	12/15/16 01:21	1
2-Fluorobiphenyl	72		42 - 115	12/14/16 07:31	12/15/16 01:21	1
2,4,6-Tribromophenol	67		25 - 130	12/14/16 07:31	12/15/16 01:21	1
Terphenyl-d14	89		25 - 150	12/14/16 07:31	12/15/16 01:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Arsenic	4.1		0.59	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Barium	91		0.59	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Beryllium	0.56		0.24	0.051	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Boron	6.5		3.0	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Cadmium	0.24		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Calcium	29000	B	12	3.8	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Chromium	13	B	0.59	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Cobalt	5.8		0.30	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Copper	14		0.59	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Iron	15000		12	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Lead	21		0.30	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Magnesium	2400	B	5.9	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Manganese	390		0.59	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Nickel	12		0.59	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Potassium	1000		30	4.8	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Sodium	170		59	7.8	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Thallium	0.87		0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Vanadium	20		0.30	0.086	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1
Zinc	55		1.2	0.37	mg/Kg	☼	12/10/16 10:01	12/12/16 02:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:12	1
Boron	0.14	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 03:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:12	1
Cobalt	0.017	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:12	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 03:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 03:12	1
Manganese	6.2		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:12	1
Nickel	0.017	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 03:12	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:12	1
Zinc	0.071	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 03:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.27		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 06:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 19:14	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 19:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/09/16 20:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.053		0.018	0.0078	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
2-Butanone (MEK)	0.0096		0.0045	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 120	12/07/16 18:00	12/09/16 00:18	1
Dibromofluoromethane	115		75 - 120	12/07/16 18:00	12/09/16 00:18	1
1,2-Dichloroethane-d4 (Surr)	113		69 - 134	12/07/16 18:00	12/09/16 00:18	1
Toluene-d8 (Surr)	110		75 - 123	12/07/16 18:00	12/09/16 00:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Methylnaphthalene	0.0080	J	0.079	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Acenaphthylene	0.0082	J	0.039	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Acenaphthene	0.028	J	0.039	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Fluorene	0.026	J	0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Diethyl phthalate	0.15	J	0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Phenanthrene	0.082		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Anthracene	0.019	J	0.039	0.0066	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Fluoranthene	0.11		0.039	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Pyrene	0.10		0.039	0.0078	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Benzo[a]anthracene	0.045		0.039	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.048		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Benzo[b]fluoranthene	0.065		0.039	0.0085	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Benzo[k]fluoranthene	0.024 J		0.039	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Benzo[a]pyrene	0.050		0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Indeno[1,2,3-cd]pyrene	0.028 J		0.039	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
Benzo[g,h,i]perylene	0.035 J		0.039	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130	12/14/16 07:31	12/15/16 01:48	1
Phenol-d5	64		36 - 123	12/14/16 07:31	12/15/16 01:48	1
Nitrobenzene-d5	88		33 - 124	12/14/16 07:31	12/15/16 01:48	1
2-Fluorobiphenyl	80		42 - 115	12/14/16 07:31	12/15/16 01:48	1
2,4,6-Tribromophenol	69		25 - 130	12/14/16 07:31	12/15/16 01:48	1
Terphenyl-d14	91		25 - 150	12/14/16 07:31	12/15/16 01:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51 J		1.2	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Arsenic	4.7		0.58	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Barium	73		0.58	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Beryllium	0.56		0.23	0.050	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Boron	7.0		2.9	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Cadmium	0.58		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Calcium	34000 B		12	3.7	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Chromium	13 B		0.58	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Cobalt	6.2		0.29	0.066	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Copper	19		0.58	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Iron	16000		12	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Lead	45		0.29	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Magnesium	6000 B		5.8	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Manganese	760		0.58	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Nickel	14		0.58	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Potassium	1300		29	4.7	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Silver	0.068 J		0.29	0.068	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Sodium	490		58	7.7	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Vanadium	21		0.29	0.085	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1
Zinc	160		1.2	0.37	mg/Kg	☼	12/10/16 10:01	12/12/16 03:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:17	1
Boron	0.22 J B		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 03:17	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:17	1
Cobalt	0.016	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:17	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 03:17	1
Lead	0.012		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 03:17	1
Manganese	6.2		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:17	1
Nickel	0.024	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:17	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 03:17	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:17	1
Zinc	0.87		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 03:17	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 06:54	1
Manganese	0.012	J	0.025	0.010	mg/L		12/12/16 09:10	12/14/16 06:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 19:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 19:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.018	0.0092	mg/Kg	☼	12/09/16 15:45	12/12/16 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.4		0.2	0.2	SU			12/09/16 20:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.072		0.018	0.0077	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
2-Butanone (MEK)	0.013		0.0044	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 120	12/07/16 18:00	12/09/16 00:44	1
Dibromofluoromethane	113		75 - 120	12/07/16 18:00	12/09/16 00:44	1
1,2-Dichloroethane-d4 (Surr)	116		69 - 134	12/07/16 18:00	12/09/16 00:44	1
Toluene-d8 (Surr)	110		75 - 123	12/07/16 18:00	12/09/16 00:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Naphthalene	0.080		0.039	0.0060	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Methylnaphthalene	0.063 J		0.078	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Acenaphthylene	0.016 J		0.039	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Acenaphthene	0.22		0.039	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Dibenzofuran	0.10 J		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Fluorene	0.22		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Phenanthrene	2.3		0.039	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Anthracene	0.65		0.039	0.0065	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Carbazole	0.44		0.19	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Pyrene	2.4		0.039	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Benzo[a]anthracene	1.4		0.039	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Chrysene	1.4		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Benzo[b]fluoranthene	1.8		0.039	0.0084	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Benzo[k]fluoranthene	0.68		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Benzo[a]pyrene	1.2		0.039	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Indeno[1,2,3-cd]pyrene	0.46		0.039	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Dibenz(a,h)anthracene	0.14		0.039	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
Benzo[g,h,i]perylene	0.44		0.039	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/14/16 07:31	12/15/16 06:47	1
Phenol-d5	87		36 - 123	12/14/16 07:31	12/15/16 06:47	1
Nitrobenzene-d5	87		33 - 124	12/14/16 07:31	12/15/16 06:47	1
2-Fluorobiphenyl	82		42 - 115	12/14/16 07:31	12/15/16 06:47	1
2,4,6-Tribromophenol	65		25 - 130	12/14/16 07:31	12/15/16 06:47	1
Terphenyl-d14	90		25 - 150	12/14/16 07:31	12/15/16 06:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	4.1		0.19	0.036	mg/Kg	☼	12/14/16 07:31	12/16/16 15:27	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Arsenic	6.4		0.60	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Barium	110		0.60	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Beryllium	0.73		0.24	0.052	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Boron	5.8		3.0	0.42	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Cadmium	0.51		0.12	0.035	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Calcium	11000	B	12	3.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Chromium	16	B	0.60	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Cobalt	8.2		0.30	0.068	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Copper	25		0.60	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Iron	29000		12	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Lead	51		0.30	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Magnesium	3500	B	6.0	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Manganese	380		0.60	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Nickel	18		0.60	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Potassium	1400		30	4.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Selenium	0.34	J	0.60	0.30	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Sodium	1600		60	7.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Thallium	1.2		0.60	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Vanadium	26		0.30	0.088	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1
Zinc	190		1.2	0.38	mg/Kg	☼	12/10/16 10:01	12/12/16 03:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:30	1
Boron	0.12	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:30	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 03:30	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:30	1
Cobalt	0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:30	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 03:30	1
Lead	0.014		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 03:30	1
Manganese	4.8		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:30	1
Nickel	0.030		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:30	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 03:30	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:30	1
Zinc	0.56		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 03:30	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 07:01	1
Manganese	0.94		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 07:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 19:23	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 19:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.019	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.3		0.2	0.2	SU			12/09/16 20:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.033		0.021	0.0091	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/07/16 18:00	12/09/16 17:36	1
Dibromofluoromethane	115		75 - 120	12/07/16 18:00	12/09/16 17:36	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 134	12/07/16 18:00	12/09/16 17:36	1
Toluene-d8 (Surr)	108		75 - 123	12/07/16 18:00	12/09/16 17:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Diethyl phthalate	0.11	J	0.21	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Phenanthrene	0.0069	J	0.041	0.0057	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Fluoranthene	0.0099	J	0.041	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Pyrene	0.0096	J	0.041	0.0081	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Benzo[b]fluoranthene	0.010	J	0.041	0.0088	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		40 - 130	12/14/16 07:31	12/15/16 02:15	1
Phenol-d5	56		36 - 123	12/14/16 07:31	12/15/16 02:15	1
Nitrobenzene-d5	80		33 - 124	12/14/16 07:31	12/15/16 02:15	1
2-Fluorobiphenyl	74		42 - 115	12/14/16 07:31	12/15/16 02:15	1
2,4,6-Tribromophenol	29		25 - 130	12/14/16 07:31	12/15/16 02:15	1
Terphenyl-d14	97		25 - 150	12/14/16 07:31	12/15/16 02:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Arsenic	3.3		0.63	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Barium	110		0.63	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Beryllium	0.58		0.25	0.055	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Boron	3.2		3.2	0.44	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Cadmium	0.23		0.13	0.037	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Calcium	4000	B	13	4.1	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Chromium	16	B	0.63	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Cobalt	7.2		0.32	0.072	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Copper	12		0.63	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Iron	17000		13	4.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Lead	16		0.32	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Magnesium	3000	B	6.3	2.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Manganese	710		0.63	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Nickel	17		0.63	0.17	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Potassium	1400		32	5.2	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Selenium	<0.63		0.63	0.31	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Silver	<0.32		0.32	0.074	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Sodium	600		63	8.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Thallium	1.4		0.63	0.31	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Vanadium	21		0.32	0.093	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1
Zinc	59		1.3	0.40	mg/Kg	☼	12/10/16 10:01	12/12/16 03:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:35	1
Boron	0.13	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Cobalt	0.036		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Iron	<0.40		0.40	0.20	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Lead	0.019		0.0075	0.0075	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Manganese	4.3		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Nickel	0.049		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Silver	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:35	1
Zinc	0.26	J	0.50	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:35	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.058		0.0075	0.0075	mg/L	-	12/12/16 09:10	12/14/16 07:07	1
Manganese	1.2		0.025	0.010	mg/L	-	12/12/16 09:10	12/14/16 07:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/13/16 08:02	12/13/16 19:27	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/13/16 08:02	12/13/16 19:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 12:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.022	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/09/16 20:44	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.090		0.021	0.0094	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
2-Butanone (MEK)	0.020		0.0054	0.0024	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Chloroform	<0.0021		0.0021	0.00075	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,1-Dichloroethane	<0.0021		0.0021	0.00074	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,2-Dichloropropane	<0.0021		0.0021	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Trichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 120	12/07/16 18:00	12/09/16 18:02	1
Dibromofluoromethane	115		75 - 120	12/07/16 18:00	12/09/16 18:02	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 134	12/07/16 18:00	12/09/16 18:02	1
Toluene-d8 (Surr)	110		75 - 123	12/07/16 18:00	12/09/16 18:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Naphthalene	0.077		0.038	0.0059	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Methylnaphthalene	0.083		0.078	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Acenaphthylene	0.038		0.038	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Acenaphthene	0.086		0.038	0.0069	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Dibenzofuran	0.062 J		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Fluorene	0.11		0.038	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Phenanthrene	1.1		0.038	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Anthracene	0.28		0.038	0.0064	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Carbazole	0.12 J		0.19	0.096	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Fluoranthene	1.1		0.038	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Pyrene	1.0		0.038	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Benzo[a]anthracene	0.51		0.038	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.49		0.038	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Benzo[b]fluoranthene	0.54		0.038	0.0083	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Benzo[k]fluoranthene	0.20		0.038	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Benzo[a]pyrene	0.43		0.038	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Dibenz(a,h)anthracene	0.043		0.038	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		40 - 130	12/14/16 07:31	12/15/16 07:15	1
Phenol-d5	54		36 - 123	12/14/16 07:31	12/15/16 07:15	1
Nitrobenzene-d5	94		33 - 124	12/14/16 07:31	12/15/16 07:15	1
2-Fluorobiphenyl	84		42 - 115	12/14/16 07:31	12/15/16 07:15	1
2,4,6-Tribromophenol	51		25 - 130	12/14/16 07:31	12/15/16 07:15	1
Terphenyl-d14	87		25 - 150	12/14/16 07:31	12/15/16 07:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7		1.1	0.23	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Arsenic	8.4		0.56	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Barium	120		0.56	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Beryllium	0.55		0.22	0.048	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Boron	6.2		2.8	0.39	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Cadmium	0.49		0.11	0.032	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Calcium	7500	B	11	3.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Chromium	17	B	0.56	0.096	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Cobalt	8.5		0.28	0.063	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Copper	35		0.56	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Iron	33000		11	4.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Lead	41		0.28	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Magnesium	3700	B	5.6	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Manganese	370		0.56	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Nickel	30		0.56	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Potassium	1400		28	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Selenium	0.32	J	0.56	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Sodium	790		56	7.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Thallium	1.3		0.56	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Vanadium	26		0.28	0.081	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1
Zinc	120		1.1	0.35	mg/Kg	☼	12/10/16 10:01	12/12/16 03:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:53	1
Boron	0.17	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0079		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 03:53	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:53	1
Cobalt	0.037		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:53	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 03:53	1
Lead	0.025		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 03:53	1
Manganese	8.0		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:53	1
Nickel	0.071		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:53	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 03:53	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 03:53	1
Zinc	0.67		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 03:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:10	12/14/16 07:14	1
Lead	0.21		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 07:14	1
Manganese	1.2		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 07:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 19:43	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 19:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			12/09/16 20:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.097		0.027	0.012	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Benzene	<0.0027		0.0027	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Bromodichloromethane	<0.0027		0.0027	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Bromoform	<0.0027		0.0027	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Bromomethane	<0.0069		0.0069	0.0026	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
2-Butanone (MEK)	0.020		0.0069	0.0030	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Carbon disulfide	<0.0069		0.0069	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Carbon tetrachloride	<0.0027		0.0027	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Chlorobenzene	<0.0027		0.0027	0.0010	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Chloroethane	<0.0069		0.0069	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Chloroform	<0.0027		0.0027	0.00095	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Chloromethane	<0.0069		0.0069	0.0028	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
cis-1,2-Dichloroethene	<0.0027		0.0027	0.00077	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
cis-1,3-Dichloropropene	<0.0027		0.0027	0.00083	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Dibromochloromethane	<0.0027		0.0027	0.00090	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,1-Dichloroethane	<0.0027		0.0027	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,2-Dichloroethane	<0.0069		0.0069	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,1-Dichloroethene	<0.0027		0.0027	0.00095	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,2-Dichloropropane	<0.0027		0.0027	0.00071	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,3-Dichloropropene, Total	<0.0027		0.0027	0.00096	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Ethylbenzene	<0.0027		0.0027	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
2-Hexanone	<0.0069		0.0069	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Methylene Chloride	<0.0069		0.0069	0.0027	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0069		0.0069	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Methyl tert-butyl ether	<0.0027		0.0027	0.00081	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Styrene	<0.0027		0.0027	0.00083	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,1,2,2-Tetrachloroethane	<0.0027		0.0027	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Tetrachloroethene	<0.0027		0.0027	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Toluene	<0.0027		0.0027	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
trans-1,2-Dichloroethene	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
trans-1,3-Dichloropropene	<0.0027		0.0027	0.00096	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,1,1-Trichloroethane	<0.0027		0.0027	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
1,1,2-Trichloroethane	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Trichloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Vinyl acetate	<0.0069		0.0069	0.0024	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Vinyl chloride	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1
Xylenes, Total	<0.0055		0.0055	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 120	12/07/16 18:00	12/09/16 18:28	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/09/16 18:28	1
1,2-Dichloroethane-d4 (Surr)	119		69 - 134	12/07/16 18:00	12/09/16 18:28	1
Toluene-d8 (Surr)	110		75 - 123	12/07/16 18:00	12/09/16 18:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Naphthalene	0.042		0.040	0.0062	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Methylnaphthalene	0.039 J		0.081	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Acenaphthylene	0.0053 J		0.040	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Acenaphthene	0.11		0.040	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Dibenzofuran	0.080 J		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Fluorene	0.10		0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Phenanthrene	1.1		0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Anthracene	0.28		0.040	0.0067	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Carbazole	0.13 J		0.20	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Fluoranthene	1.0		0.040	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Pyrene	0.91		0.040	0.0080	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Benzo[a]anthracene	0.47		0.040	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.41		0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Benzo[b]fluoranthene	0.47		0.040	0.0086	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Benzo[k]fluoranthene	0.17		0.040	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Benzo[a]pyrene	0.37		0.040	0.0078	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Dibenz(a,h)anthracene	0.038	J	0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
Benzo[g,h,i]perylene	0.12		0.040	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/14/16 07:31	12/15/16 07:42	1
Phenol-d5	50		36 - 123	12/14/16 07:31	12/15/16 07:42	1
Nitrobenzene-d5	91		33 - 124	12/14/16 07:31	12/15/16 07:42	1
2-Fluorobiphenyl	82		42 - 115	12/14/16 07:31	12/15/16 07:42	1
2,4,6-Tribromophenol	50		25 - 130	12/14/16 07:31	12/15/16 07:42	1
Terphenyl-d14	84		25 - 150	12/14/16 07:31	12/15/16 07:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.1	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Arsenic	3.9		0.57	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Barium	100		0.57	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Beryllium	0.57		0.23	0.050	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Boron	4.1		2.9	0.40	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Cadmium	0.26		0.11	0.033	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Calcium	9800	B	11	3.7	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Chromium	15	B	0.57	0.099	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Cobalt	6.1		0.29	0.065	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Copper	23		0.57	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Iron	20000		11	4.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Lead	57		0.29	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Magnesium	3300	B	5.7	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Manganese	400		0.57	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Nickel	15		0.57	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Potassium	1600		29	4.7	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Silver	0.070	J	0.29	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Sodium	450		57	7.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Thallium	1.0		0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Vanadium	17		0.29	0.084	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1
Zinc	110		1.1	0.36	mg/Kg	☼	12/10/16 10:01	12/12/16 03:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 03:58	1
Boron	0.19	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 03:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Cobalt	0.023	J	0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Iron	0.30	J	0.40	0.20	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Lead	0.025		0.0075	0.0075	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Manganese	6.5		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Nickel	0.023	J	0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Silver	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 03:58	1
Zinc	0.51		0.50	0.020	mg/L	-	12/13/16 08:02	12/14/16 03:58	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18		0.0075	0.0075	mg/L	-	12/12/16 09:10	12/14/16 07:24	1
Manganese	0.99		0.025	0.010	mg/L	-	12/12/16 09:10	12/14/16 07:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/13/16 08:02	12/13/16 19:47	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/13/16 08:02	12/13/16 19:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 13:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.020	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/09/16 20:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 120	12/07/16 18:00	12/09/16 18:54	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/09/16 18:54	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/07/16 18:00	12/09/16 18:54	1
Toluene-d8 (Surr)	113		75 - 123	12/07/16 18:00	12/09/16 18:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Methylnaphthalene	0.021	J	0.077	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Diethyl phthalate	0.076	J	0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Phenanthrene	0.12		0.038	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Anthracene	0.022	J	0.038	0.0064	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Fluoranthene	0.18		0.038	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Pyrene	0.15		0.038	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Benzo[a]anthracene	0.074		0.038	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.076		0.038	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Benzo[b]fluoranthene	0.083		0.038	0.0083	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Benzo[k]fluoranthene	0.033 J		0.038	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Benzo[a]pyrene	0.066		0.038	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Indeno[1,2,3-cd]pyrene	0.034 J		0.038	0.0099	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Dibenz(a,h)anthracene	0.010 J		0.038	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
Benzo[g,h,i]perylene	0.038		0.038	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/14/16 07:31	12/15/16 02:43	1
Phenol-d5	62		36 - 123	12/14/16 07:31	12/15/16 02:43	1
Nitrobenzene-d5	95		33 - 124	12/14/16 07:31	12/15/16 02:43	1
2-Fluorobiphenyl	84		42 - 115	12/14/16 07:31	12/15/16 02:43	1
2,4,6-Tribromophenol	66		25 - 130	12/14/16 07:31	12/15/16 02:43	1
Terphenyl-d14	85		25 - 150	12/14/16 07:31	12/15/16 02:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28 J		1.1	0.23	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Arsenic	4.1		0.56	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Barium	77		0.56	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Beryllium	0.55		0.22	0.049	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Boron	4.9		2.8	0.39	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Cadmium	0.34		0.11	0.033	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Calcium	16000 B		11	3.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Chromium	12 B		0.56	0.097	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Cobalt	5.3		0.28	0.063	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Copper	14		0.56	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Iron	13000		11	4.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Lead	42		0.28	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Magnesium	4800 B		5.6	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Manganese	360		0.56	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Nickel	12		0.56	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Potassium	980		28	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Sodium	290		56	7.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Thallium	0.67		0.56	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Vanadium	17		0.28	0.082	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1
Zinc	88		1.1	0.36	mg/Kg	☼	12/10/16 10:01	12/12/16 03:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.77		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:03	1
Boron	0.11 J B		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 86.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:03	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:03	1
Cobalt	0.017	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:03	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:03	1
Lead	0.013		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:03	1
Manganese	4.1		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:03	1
Nickel	0.018	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:03	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:03	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:03	1
Zinc	0.13	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:03	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.054		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 07:54	1
Manganese	0.34		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 07:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 19:51	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 19:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.019	0.0099	mg/Kg	☼	12/09/16 15:45	12/12/16 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/09/16 20:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/07/16 18:00	12/09/16 19:20	1
Dibromofluoromethane	115		75 - 120	12/07/16 18:00	12/09/16 19:20	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/07/16 18:00	12/09/16 19:20	1
Toluene-d8 (Surr)	106		75 - 123	12/07/16 18:00	12/09/16 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Phenanthrene	0.0056	J	0.038	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/14/16 07:31	12/15/16 03:10	1
Phenol-d5	69		36 - 123	12/14/16 07:31	12/15/16 03:10	1
Nitrobenzene-d5	95		33 - 124	12/14/16 07:31	12/15/16 03:10	1
2-Fluorobiphenyl	89		42 - 115	12/14/16 07:31	12/15/16 03:10	1
2,4,6-Tribromophenol	53		25 - 130	12/14/16 07:31	12/15/16 03:10	1
Terphenyl-d14	92		25 - 150	12/14/16 07:31	12/15/16 03:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Arsenic	4.5		0.59	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Barium	84		0.59	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Beryllium	0.53		0.24	0.051	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Boron	2.5	J	2.9	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Cadmium	0.15		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Calcium	5800	B	12	3.8	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Chromium	15	B	0.59	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Cobalt	7.4		0.29	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Copper	12		0.59	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Iron	16000		12	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Lead	8.2		0.29	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Magnesium	3400	B	5.9	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Manganese	440		0.59	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Nickel	15		0.59	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Potassium	930		29	4.8	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Sodium	210		59	7.8	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Thallium	0.97		0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Vanadium	22		0.29	0.086	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1
Zinc	36		1.2	0.37	mg/Kg	☼	12/10/16 10:01	12/12/16 03:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:08	1
Boron	0.052	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:08	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:08	1
Cobalt	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:08	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:08	1
Manganese	0.043		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:08	1
Nickel	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:08	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:08	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:08	1
Zinc	0.022	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/09/16 20:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	12/07/16 18:00	12/09/16 19:47	1
Dibromofluoromethane	118		75 - 120	12/07/16 18:00	12/09/16 19:47	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/07/16 18:00	12/09/16 19:47	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/09/16 19:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Phenanthrene	0.0069	J	0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Fluoranthene	0.0082	J	0.040	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		40 - 130	12/14/16 07:31	12/15/16 03:37	1
Phenol-d5	80		36 - 123	12/14/16 07:31	12/15/16 03:37	1
Nitrobenzene-d5	100		33 - 124	12/14/16 07:31	12/15/16 03:37	1
2-Fluorobiphenyl	92		42 - 115	12/14/16 07:31	12/15/16 03:37	1
2,4,6-Tribromophenol	54		25 - 130	12/14/16 07:31	12/15/16 03:37	1
Terphenyl-d14	94		25 - 150	12/14/16 07:31	12/15/16 03:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Arsenic	3.8		0.60	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Barium	82		0.60	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Beryllium	0.51		0.24	0.052	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Boron	2.2	J	3.0	0.42	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Cadmium	0.17		0.12	0.035	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Calcium	6400	B	12	3.8	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Chromium	14	B	0.60	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Cobalt	5.8		0.30	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Copper	12		0.60	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Iron	14000		12	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Lead	8.1		0.30	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Magnesium	4000	B	6.0	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Manganese	380		0.60	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Nickel	14		0.60	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Potassium	920		30	4.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Selenium	<0.60		0.60	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Sodium	210		60	7.9	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Thallium	0.92		0.60	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Vanadium	19		0.30	0.087	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1
Zinc	33		1.2	0.38	mg/Kg	☼	12/10/16 10:01	12/12/16 03:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:12	1
Boron	0.073	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:12	1
Cobalt	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:12	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:12	1
Manganese	0.097		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:12	1
Nickel	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:12	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:12	1
Zinc	<0.50		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:12	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:11	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/09/16 21:02	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 120	12/07/16 18:00	12/09/16 20:13	1
Dibromofluoromethane	116		75 - 120	12/07/16 18:00	12/09/16 20:13	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/07/16 18:00	12/09/16 20:13	1
Toluene-d8 (Surr)	112		75 - 123	12/07/16 18:00	12/09/16 20:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Acenaphthylene	0.0052	J	0.036	0.0048	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Phenanthrene	0.046		0.036	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Anthracene	0.0088	J	0.036	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Fluoranthene	0.084		0.036	0.0068	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Pyrene	0.076		0.036	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.046		0.036	0.0099	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Benzo[b]fluoranthene	0.067		0.036	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Benzo[k]fluoranthene	0.021 J		0.036	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Benzo[a]pyrene	0.041		0.036	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
Benzo[g,h,i]perylene	0.017 J		0.036	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 08:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		40 - 130	12/14/16 07:31	12/15/16 08:09	1
Phenol-d5	74		36 - 123	12/14/16 07:31	12/15/16 08:09	1
Nitrobenzene-d5	99		33 - 124	12/14/16 07:31	12/15/16 08:09	1
2-Fluorobiphenyl	92		42 - 115	12/14/16 07:31	12/15/16 08:09	1
2,4,6-Tribromophenol	63		25 - 130	12/14/16 07:31	12/15/16 08:09	1
Terphenyl-d14	88		25 - 150	12/14/16 07:31	12/15/16 08:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41 J		1.1	0.23	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Arsenic	4.1		0.55	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Barium	74		0.55	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Beryllium	0.52		0.22	0.048	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Boron	4.8		2.7	0.38	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Cadmium	0.28		0.11	0.032	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Calcium	19000 B		11	3.5	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Chromium	11 B		0.55	0.094	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Cobalt	5.0		0.27	0.062	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Copper	13		0.55	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Iron	13000		11	4.2	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Lead	49		0.27	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Magnesium	5100 B		5.5	2.2	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Manganese	250		0.55	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Nickel	12		0.55	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Potassium	940		27	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Sodium	510		55	7.2	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Thallium	0.66		0.55	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Vanadium	16		0.27	0.080	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1
Zinc	65		1.1	0.35	mg/Kg	☼	12/10/16 10:01	12/12/16 04:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:25	1
Boron	0.14 J B		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 88.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J	0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:25	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:25	1
Cobalt	0.022	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:25	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:25	1
Lead	0.013		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:25	1
Manganese	5.6		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:25	1
Nickel	0.023	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:25	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:25	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:25	1
Zinc	0.16	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:25	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.017		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 08:15	1
Manganese	0.066		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 08:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:15	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.017	0.0091	mg/Kg	☼	12/09/16 15:45	12/12/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/09/16 21:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	12/07/16 18:00	12/09/16 20:39	1
Dibromofluoromethane	116		75 - 120	12/07/16 18:00	12/09/16 20:39	1
1,2-Dichloroethane-d4 (Surr)	118		69 - 134	12/07/16 18:00	12/09/16 20:39	1
Toluene-d8 (Surr)	108		75 - 123	12/07/16 18:00	12/09/16 20:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	114		40 - 130	12/14/16 07:31	12/15/16 04:04	1
Phenol-d5	90		36 - 123	12/14/16 07:31	12/15/16 04:04	1
Nitrobenzene-d5	105		33 - 124	12/14/16 07:31	12/15/16 04:04	1
2-Fluorobiphenyl	97		42 - 115	12/14/16 07:31	12/15/16 04:04	1
2,4,6-Tribromophenol	25		25 - 130	12/14/16 07:31	12/15/16 04:04	1
Terphenyl-d14	98		25 - 150	12/14/16 07:31	12/15/16 04:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Arsenic	2.9		0.58	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Barium	82		0.58	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Beryllium	0.46		0.23	0.050	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Boron	2.4	J	2.9	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Cadmium	0.17		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Calcium	3200	B	12	3.7	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Chromium	13	B	0.58	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Cobalt	5.1		0.29	0.066	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Copper	10		0.58	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Iron	13000		12	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Lead	7.2		0.29	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Magnesium	2300	B	5.8	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Manganese	350		0.58	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Nickel	13		0.58	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Potassium	870		29	4.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Sodium	130		58	7.7	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Thallium	0.80		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Vanadium	16		0.29	0.085	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1
Zinc	32		1.2	0.37	mg/Kg	☼	12/10/16 10:01	12/12/16 04:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:30	1
Boron	0.060	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:30	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:30	1
Cobalt	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:30	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:30	1
Manganese	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:30	1
Nickel	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:30	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:30	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:30	1
Zinc	<0.50		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:19	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0099	mg/Kg	☼	12/09/16 15:45	12/12/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			12/09/16 21:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/07/16 18:00	12/09/16 21:05	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/09/16 21:05	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134	12/07/16 18:00	12/09/16 21:05	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/09/16 21:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Phenanthrene	0.032	J	0.040	0.0057	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Fluoranthene	0.057		0.040	0.0075	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Pyrene	0.053		0.040	0.0081	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Benzo[a]anthracene	0.023	J	0.040	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.034	J	0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Benzo[b]fluoranthene	0.038	J	0.040	0.0088	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Benzo[k]fluoranthene	0.015	J	0.040	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Benzo[a]pyrene	0.026	J	0.040	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/14/16 07:31	12/15/16 04:31	1
Phenol-d5	86		36 - 123	12/14/16 07:31	12/15/16 04:31	1
Nitrobenzene-d5	95		33 - 124	12/14/16 07:31	12/15/16 04:31	1
2-Fluorobiphenyl	86		42 - 115	12/14/16 07:31	12/15/16 04:31	1
2,4,6-Tribromophenol	55		25 - 130	12/14/16 07:31	12/15/16 04:31	1
Terphenyl-d14	90		25 - 150	12/14/16 07:31	12/15/16 04:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.2	0.25	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Arsenic	3.7		0.59	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Barium	100		0.59	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Beryllium	0.48		0.24	0.051	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Boron	3.0		3.0	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Cadmium	0.22		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Calcium	7400	B	12	3.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Cobalt	5.5		0.30	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Copper	11		0.59	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Iron	12000		12	4.6	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Lead	48		0.30	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Magnesium	1900	B	5.9	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Manganese	490		0.59	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Nickel	11		0.59	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Potassium	880		30	4.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Selenium	0.35	J	0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Sodium	310		59	7.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Thallium	0.91		0.59	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Vanadium	16		0.30	0.087	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1
Zinc	41		1.2	0.38	mg/Kg	☼	12/10/16 10:01	12/12/16 04:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:35	1
Boron	0.12	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 80.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:35	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:35	1
Cobalt	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:35	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:35	1
Manganese	1.1		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:35	1
Nickel	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:35	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:35	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:35	1
Zinc	0.030	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 08:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:23	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.010	mg/Kg	☼	12/09/16 15:45	12/12/16 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/09/16 21:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/07/16 18:00	12/09/16 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/07/16 18:00	12/09/16 21:31	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/09/16 21:31	1
1,2-Dichloroethane-d4 (Surr)	115		69 - 134	12/07/16 18:00	12/09/16 21:31	1
Toluene-d8 (Surr)	106		75 - 123	12/07/16 18:00	12/09/16 21:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/14/16 07:31	12/15/16 04:59	1
Phenol-d5	90		36 - 123	12/14/16 07:31	12/15/16 04:59	1
Nitrobenzene-d5	95		33 - 124	12/14/16 07:31	12/15/16 04:59	1
2-Fluorobiphenyl	90		42 - 115	12/14/16 07:31	12/15/16 04:59	1
2,4,6-Tribromophenol	48		25 - 130	12/14/16 07:31	12/15/16 04:59	1
Terphenyl-d14	92		25 - 150	12/14/16 07:31	12/15/16 04:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Arsenic	6.3		0.57	0.26	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Barium	76		0.57	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Beryllium	0.49		0.23	0.049	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Boron	1.7	J	2.9	0.40	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Cadmium	0.31		0.11	0.033	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Calcium	2500	B	11	3.7	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Chromium	13	B	0.57	0.098	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Cobalt	6.9		0.29	0.064	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Copper	11		0.57	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Iron	15000		11	4.4	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Lead	7.4		0.29	0.14	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Magnesium	2100	B	5.7	2.3	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Manganese	770		0.57	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Nickel	19		0.57	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Potassium	660		29	4.7	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Sodium	180		57	7.5	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Thallium	1.4		0.57	0.28	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Vanadium	22		0.29	0.083	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1
Zinc	31		1.1	0.36	mg/Kg	☼	12/10/16 10:01	12/12/16 04:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:40	1
Boron	0.050	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Iron	<0.40		0.40	0.20	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Manganese	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Silver	<0.025		0.025	0.010	mg/L	-	12/13/16 08:02	12/14/16 04:40	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/13/16 08:02	12/14/16 04:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/13/16 08:02	12/13/16 20:27	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/13/16 08:02	12/13/16 20:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 13:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/09/16 21:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.060		0.019	0.0083	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
2-Butanone (MEK)	0.010		0.0048	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/07/16 18:00	12/09/16 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 120	12/07/16 18:00	12/09/16 21:57	1
Dibromofluoromethane	118		75 - 120	12/07/16 18:00	12/09/16 21:57	1
1,2-Dichloroethane-d4 (Surr)	116		69 - 134	12/07/16 18:00	12/09/16 21:57	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/09/16 21:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Naphthalene	0.020	J	0.040	0.0061	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Methylnaphthalene	0.027	J	0.080	0.0073	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Acenaphthylene	0.014	J	0.040	0.0052	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Acenaphthene	0.010	J	0.040	0.0071	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Fluorene	0.012	J	0.040	0.0056	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Phenanthrene	0.15		0.040	0.0055	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Anthracene	0.032	J	0.040	0.0066	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Fluoranthene	0.20		0.040	0.0074	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Pyrene	0.18		0.040	0.0079	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.040	0.011	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Benzo[b]fluoranthene	0.16		0.040	0.0086	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Benzo[k]fluoranthene	0.055		0.040	0.012	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Benzo[a]pyrene	0.097		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Indeno[1,2,3-cd]pyrene	0.034 J		0.040	0.010	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
Benzo[g,h,i]perylene	0.034 J		0.040	0.013	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/14/16 07:31	12/15/16 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		40 - 130	12/14/16 07:31	12/15/16 08:36	1
Phenol-d5	77		36 - 123	12/14/16 07:31	12/15/16 08:36	1
Nitrobenzene-d5	91		33 - 124	12/14/16 07:31	12/15/16 08:36	1
2-Fluorobiphenyl	82		42 - 115	12/14/16 07:31	12/15/16 08:36	1
2,4,6-Tribromophenol	64		25 - 130	12/14/16 07:31	12/15/16 08:36	1
Terphenyl-d14	87		25 - 150	12/14/16 07:31	12/15/16 08:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67 J		1.2	0.24	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Arsenic	4.9		0.58	0.27	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Barium	82		0.58	0.11	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Beryllium	0.59		0.23	0.051	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Boron	12		2.9	0.41	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Cadmium	0.65		0.12	0.034	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Calcium	43000 B		12	3.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Chromium	12 B		0.58	0.10	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Cobalt	5.3		0.29	0.066	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Copper	37		0.58	0.13	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Iron	21000		12	4.5	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Lead	96		0.29	0.15	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Magnesium	8300 B		5.8	2.4	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Manganese	580		0.58	0.12	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Nickel	12		0.58	0.16	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Potassium	1000		29	4.8	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Selenium	0.36 J		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Silver	0.13 J		0.29	0.068	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Sodium	430		58	7.7	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Thallium	1.1		0.58	0.29	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Vanadium	19		0.29	0.085	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1
Zinc	120		1.2	0.37	mg/Kg	☼	12/10/16 10:01	12/12/16 04:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:44	1
Boron	0.22 J B		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:44	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:44	1
Cobalt	0.012	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:44	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:44	1
Lead	0.017		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:44	1
Manganese	3.4		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:44	1
Nickel	0.016	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:44	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:44	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:44	1
Zinc	0.31	J	0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:44	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.036		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 08:42	1
Manganese	0.085		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 08:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:32	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44		0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/09/16 21:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 55.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.076		0.027	0.012	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Benzene	<0.0027		0.0027	0.00069	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Bromodichloromethane	<0.0027		0.0027	0.00055	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Bromoform	<0.0027		0.0027	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Bromomethane	<0.0067		0.0067	0.0025	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
2-Butanone (MEK)	0.014		0.0067	0.0030	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Carbon disulfide	<0.0067		0.0067	0.0014	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Carbon tetrachloride	<0.0027		0.0027	0.00078	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Chlorobenzene	<0.0027		0.0027	0.00099	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Chloroethane	<0.0067		0.0067	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Chloroform	<0.0027		0.0027	0.00093	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Chloromethane	<0.0067		0.0067	0.0027	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
cis-1,2-Dichloroethene	<0.0027		0.0027	0.00075	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
cis-1,3-Dichloropropene	<0.0027		0.0027	0.00081	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Dibromochloromethane	<0.0027		0.0027	0.00088	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,1-Dichloroethane	<0.0027		0.0027	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,2-Dichloroethane	<0.0067		0.0067	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,1-Dichloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,2-Dichloropropane	<0.0027		0.0027	0.00070	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,3-Dichloropropane, Total	<0.0027		0.0027	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Ethylbenzene	<0.0027		0.0027	0.0013	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
2-Hexanone	<0.0067		0.0067	0.0021	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Methylene Chloride	<0.0067		0.0067	0.0027	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
4-Methyl-2-pentanone (MIBK)	<0.0067		0.0067	0.0020	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Methyl tert-butyl ether	<0.0027		0.0027	0.00079	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Styrene	<0.0027		0.0027	0.00081	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,1,2,2-Tetrachloroethane	<0.0027		0.0027	0.00086	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Tetrachloroethene	<0.0027		0.0027	0.00092	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Toluene	<0.0027		0.0027	0.00068	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
trans-1,2-Dichloroethene	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
trans-1,3-Dichloropropene	<0.0027		0.0027	0.00094	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,1,1-Trichloroethane	<0.0027		0.0027	0.00090	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
1,1,2-Trichloroethane	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Trichloroethene	<0.0027		0.0027	0.00091	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Vinyl acetate	<0.0067		0.0067	0.0023	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Vinyl chloride	<0.0027		0.0027	0.0012	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1
Xylenes, Total	<0.0054		0.0054	0.00086	mg/Kg	☼	12/07/16 18:00	12/09/16 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/07/16 18:00	12/09/16 22:23	1
Dibromofluoromethane	117		75 - 120	12/07/16 18:00	12/09/16 22:23	1
1,2-Dichloroethane-d4 (Surr)	119		69 - 134	12/07/16 18:00	12/09/16 22:23	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 18:00	12/09/16 22:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.29		0.29	0.13	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Bis(2-chloroethyl)ether	<0.29		0.29	0.087	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
1,3-Dichlorobenzene	<0.29		0.29	0.066	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
1,4-Dichlorobenzene	<0.29		0.29	0.075	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 55.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.29		0.29	0.070	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Methylphenol	<0.29		0.29	0.093	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,2'-oxybis[1-chloropropane]	<0.29		0.29	0.067	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.071	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Hexachloroethane	<0.29		0.29	0.089	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Chlorophenol	<0.29		0.29	0.099	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Nitrobenzene	<0.058		0.058	0.015	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Bis(2-chloroethoxy)methane	<0.29		0.29	0.059	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
1,2,4-Trichlorobenzene	<0.29		0.29	0.063	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Isophorone	<0.29		0.29	0.065	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4-Dimethylphenol	<0.58		0.58	0.22	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Hexachlorobutadiene	<0.29		0.29	0.092	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Naphthalene	0.042	J	0.058	0.0090	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4-Dichlorophenol	<0.58		0.58	0.14	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Chloroaniline	<1.2		1.2	0.27	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4,6-Trichlorophenol	<0.58		0.58	0.20	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4,5-Trichlorophenol	<0.58		0.58	0.13	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Hexachlorocyclopentadiene	<1.2		1.2	0.33	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Methylnaphthalene	0.022	J	0.12	0.011	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Nitroaniline	<0.29		0.29	0.078	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Chloronaphthalene	<0.29		0.29	0.064	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Chloro-3-methylphenol	<0.58		0.58	0.20	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,6-Dinitrotoluene	<0.29		0.29	0.11	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2-Nitrophenol	<0.58		0.58	0.14	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
3-Nitroaniline	<0.58		0.58	0.18	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Dimethyl phthalate	<0.29		0.29	0.076	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4-Dinitrophenol	<1.2		1.2	1.0	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Acenaphthylene	0.052	J	0.058	0.0077	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
2,4-Dinitrotoluene	<0.29		0.29	0.093	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Acenaphthene	0.088		0.058	0.010	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Dibenzofuran	<0.29		0.29	0.068	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Nitrophenol	<1.2		1.2	0.55	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Fluorene	0.092		0.058	0.0082	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Nitroaniline	<0.58		0.58	0.24	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Bromophenyl phenyl ether	<0.29		0.29	0.077	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Hexachlorobenzene	<0.12		0.12	0.013	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Diethyl phthalate	<0.29		0.29	0.099	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4-Chlorophenyl phenyl ether	<0.29		0.29	0.068	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Pentachlorophenol	<1.2		1.2	0.93	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
N-Nitrosodiphenylamine	<0.29		0.29	0.069	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.47	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Phenanthrene	0.26		0.058	0.0081	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Anthracene	0.11		0.058	0.0097	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Carbazole	<0.29		0.29	0.15	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Di-n-butyl phthalate	<0.29		0.29	0.089	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Fluoranthene	0.62		0.058	0.011	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Pyrene	0.58		0.058	0.012	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Butyl benzyl phthalate	<0.29		0.29	0.11	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Benzo[a]anthracene	0.25		0.058	0.0078	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 55.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.23		0.058	0.016	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
3,3'-Dichlorobenzidine	<0.29		0.29	0.082	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Bis(2-ethylhexyl) phthalate	<0.29		0.29	0.11	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Di-n-octyl phthalate	<0.29		0.29	0.095	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Benzo[b]fluoranthene	0.37		0.058	0.013	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Benzo[k]fluoranthene	0.12		0.058	0.017	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Benzo[a]pyrene	0.23		0.058	0.011	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Indeno[1,2,3-cd]pyrene	0.059		0.058	0.015	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Dibenz(a,h)anthracene	<0.058		0.058	0.011	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
Benzo[g,h,i]perylene	0.053	J	0.058	0.019	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1
3 & 4 Methylphenol	0.17	J	0.29	0.097	mg/Kg	☼	12/14/16 07:31	12/16/16 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/14/16 07:31	12/16/16 19:06	1
Phenol-d5	104		36 - 123	12/14/16 07:31	12/16/16 19:06	1
Nitrobenzene-d5	92		33 - 124	12/14/16 07:31	12/16/16 19:06	1
2-Fluorobiphenyl	87		42 - 115	12/14/16 07:31	12/16/16 19:06	1
2,4,6-Tribromophenol	73		25 - 130	12/14/16 07:31	12/16/16 19:06	1
Terphenyl-d14	94		25 - 150	12/14/16 07:31	12/16/16 19:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	1.8	0.37	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Arsenic	8.7		0.89	0.41	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Barium	120		0.89	0.16	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Beryllium	0.96		0.35	0.077	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Boron	43		4.4	0.62	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Cadmium	0.82		0.18	0.051	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Calcium	22000		18	5.7	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Chromium	16	B	0.89	0.15	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Cobalt	5.0		0.44	0.10	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Copper	39		0.89	0.19	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Iron	27000	B	18	6.8	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Lead	140		0.44	0.22	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Magnesium	2600		8.9	3.6	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Manganese	430		0.89	0.18	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Nickel	16		0.89	0.24	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Potassium	1000		44	7.2	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Selenium	0.93		0.89	0.44	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Silver	0.14	J	0.44	0.10	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Sodium	380		89	12	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Thallium	<0.89		0.89	0.44	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Vanadium	18		0.44	0.13	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1
Zinc	730		1.8	0.56	mg/Kg	☼	12/09/16 09:25	12/12/16 20:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 04:49	1
Boron	0.43	J B	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 04:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 55.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 04:49	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:49	1
Cobalt	0.013	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:49	1
Iron	1.4		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 04:49	1
Lead	0.013		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 04:49	1
Manganese	4.3		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:49	1
Nickel	0.012	J	0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:49	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 04:49	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 04:49	1
Zinc	0.86		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 04:49	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.052		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 08:48	1
Manganese	0.16		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 08:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 20:36	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 20:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 13:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.026	0.014	mg/Kg	☼	12/09/16 15:45	12/12/16 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/09/16 21:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-G01

Lab Sample ID: 500-121121-22

Date Collected: 12/06/16 10:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/13/16 12:21	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/13/16 12:21	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/13/16 12:21	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/13/16 12:21	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/13/16 12:21	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/13/16 12:21	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/13/16 12:21	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/13/16 12:21	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/13/16 12:21	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/13/16 12:21	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/13/16 12:21	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/13/16 12:21	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/13/16 12:21	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/13/16 12:21	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/13/16 12:21	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/13/16 12:21	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/13/16 12:21	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/13/16 12:21	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/13/16 12:21	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/13/16 12:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/13/16 12:21	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/13/16 12:21	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/13/16 12:21	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/13/16 12:21	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/13/16 12:21	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/13/16 12:21	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/13/16 12:21	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/13/16 12:21	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/13/16 12:21	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/13/16 12:21	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/13/16 12:21	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/13/16 12:21	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/13/16 12:21	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/13/16 12:21	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/13/16 12:21	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/13/16 12:21	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/13/16 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		71 - 120		12/13/16 12:21	1
Dibromofluoromethane	92		70 - 120		12/13/16 12:21	1
1,2-Dichloroethane-d4 (Surr)	89		71 - 127		12/13/16 12:21	1
Toluene-d8 (Surr)	92		75 - 120		12/13/16 12:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00018	mg/L		12/08/16 07:23	12/09/16 01:34	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/08/16 07:23	12/09/16 01:34	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00016	mg/L		12/08/16 07:23	12/09/16 01:34	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00016	mg/L		12/08/16 07:23	12/09/16 01:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-G01

Lab Sample ID: 500-121121-22

Date Collected: 12/06/16 10:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4,5-Trichlorophenol	<0.0078		0.0078	0.0020	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4,6-Trichlorophenol	<0.0039		0.0039	0.00056	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4-Dichlorophenol	<0.0078		0.0078	0.0020	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4-Dimethylphenol	<0.0078		0.0078	0.0014	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4-Dinitrophenol	<0.016		0.016	0.0067	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,4-Dinitrotoluene	<0.00078		0.00078	0.00019	mg/L		12/08/16 07:23	12/09/16 01:34	1
2,6-Dinitrotoluene	<0.00078		0.00078	0.000058	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Chloronaphthalene	<0.0016		0.0016	0.00018	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Chlorophenol	<0.0039		0.0039	0.00044	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Methylnaphthalene	<0.0016		0.0016	0.000051	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Nitroaniline	<0.0039		0.0039	0.0010	mg/L		12/08/16 07:23	12/09/16 01:34	1
2-Nitrophenol	<0.0078		0.0078	0.0020	mg/L		12/08/16 07:23	12/09/16 01:34	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00035	mg/L		12/08/16 07:23	12/09/16 01:34	1
3,3'-Dichlorobenzidine	<0.0039		0.0039	0.0013	mg/L		12/08/16 07:23	12/09/16 01:34	1
3-Nitroaniline	<0.0078		0.0078	0.0014	mg/L		12/08/16 07:23	12/09/16 01:34	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0046	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Bromophenyl phenyl ether	<0.0039		0.0039	0.00042	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Chloro-3-methylphenol	<0.0078		0.0078	0.0018	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Chloroaniline	<0.0078		0.0078	0.0016	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039	0.00050	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Nitroaniline	<0.0078		0.0078	0.0013	mg/L		12/08/16 07:23	12/09/16 01:34	1
4-Nitrophenol	<0.016		0.016	0.0058	mg/L		12/08/16 07:23	12/09/16 01:34	1
Acenaphthene	<0.00078		0.00078	0.00024	mg/L		12/08/16 07:23	12/09/16 01:34	1
Acenaphthylene	<0.00078		0.00078	0.00021	mg/L		12/08/16 07:23	12/09/16 01:34	1
Anthracene	<0.00078		0.00078	0.00026	mg/L		12/08/16 07:23	12/09/16 01:34	1
Benzo[a]anthracene	0.00076		0.00013	0.000044	mg/L		12/08/16 07:23	12/09/16 01:34	1
Benzo[a]pyrene	0.00086		0.00016	0.000077	mg/L		12/08/16 07:23	12/09/16 01:34	1
Benzo[b]fluoranthene	0.0011		0.00016	0.000063	mg/L		12/08/16 07:23	12/09/16 01:34	1
Benzo[g,h,i]perylene	0.00036 J		0.00078	0.00029	mg/L		12/08/16 07:23	12/09/16 01:34	1
Benzo[k]fluoranthene	0.00042		0.00016	0.000050	mg/L		12/08/16 07:23	12/09/16 01:34	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00022	mg/L		12/08/16 07:23	12/09/16 01:34	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/08/16 07:23	12/09/16 01:34	1
Bis(2-ethylhexyl) phthalate	<0.0078		0.0078	0.0013	mg/L		12/08/16 07:23	12/09/16 01:34	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/08/16 07:23	12/09/16 01:34	1
Carbazole	<0.0039		0.0039	0.00028	mg/L		12/08/16 07:23	12/09/16 01:34	1
Chrysene	0.00073		0.00016	0.000053	mg/L		12/08/16 07:23	12/09/16 01:34	1
Dibenz(a,h)anthracene	0.00012 J		0.00023	0.000040	mg/L		12/08/16 07:23	12/09/16 01:34	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/08/16 07:23	12/09/16 01:34	1
Diethyl phthalate	<0.0016		0.0016	0.00028	mg/L		12/08/16 07:23	12/09/16 01:34	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/08/16 07:23	12/09/16 01:34	1
Di-n-butyl phthalate	<0.0039		0.0039	0.00057	mg/L		12/08/16 07:23	12/09/16 01:34	1
Di-n-octyl phthalate	<0.0078		0.0078	0.00082	mg/L		12/08/16 07:23	12/09/16 01:34	1
Fluoranthene	0.0010		0.00078	0.00036	mg/L		12/08/16 07:23	12/09/16 01:34	1
Fluorene	<0.00078		0.00078	0.00019	mg/L		12/08/16 07:23	12/09/16 01:34	1
Hexachlorobenzene	<0.00039		0.00039	0.000062	mg/L		12/08/16 07:23	12/09/16 01:34	1
Hexachlorobutadiene	<0.0039		0.0039	0.00040	mg/L		12/08/16 07:23	12/09/16 01:34	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0050	mg/L		12/08/16 07:23	12/09/16 01:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-G01

Lab Sample ID: 500-121121-22

Date Collected: 12/06/16 10:15

Matrix: Water

Date Received: 12/07/16 13:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0039		0.0039	0.00047	mg/L		12/08/16 07:23	12/09/16 01:34	1
Indeno[1,2,3-cd]pyrene	0.00047		0.00016	0.000058	mg/L		12/08/16 07:23	12/09/16 01:34	1
Isophorone	<0.0016		0.0016	0.00029	mg/L		12/08/16 07:23	12/09/16 01:34	1
Naphthalene	<0.00078		0.00078	0.00024	mg/L		12/08/16 07:23	12/09/16 01:34	1
Nitrobenzene	<0.00078		0.00078	0.00035	mg/L		12/08/16 07:23	12/09/16 01:34	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039	0.00012	mg/L		12/08/16 07:23	12/09/16 01:34	1
N-Nitrosodiphenylamine	<0.00078		0.00078	0.00029	mg/L		12/08/16 07:23	12/09/16 01:34	1
Pentachlorophenol	<0.016		0.016	0.0031	mg/L		12/08/16 07:23	12/09/16 01:34	1
Phenanthrene	<0.00078		0.00078	0.00024	mg/L		12/08/16 07:23	12/09/16 01:34	1
Phenol	<0.0039		0.0039	0.00053	mg/L		12/08/16 07:23	12/09/16 01:34	1
Pyrene	0.0010		0.00078	0.00033	mg/L		12/08/16 07:23	12/09/16 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		30 - 150	12/08/16 07:23	12/09/16 01:34	1
2-Fluorobiphenyl	54		30 - 123	12/08/16 07:23	12/09/16 01:34	1
2-Fluorophenol	44		30 - 110	12/08/16 07:23	12/09/16 01:34	1
Nitrobenzene-d5	56		33 - 139	12/08/16 07:23	12/09/16 01:34	1
Phenol-d5	39		20 - 100	12/08/16 07:23	12/09/16 01:34	1
Terphenyl-d14	85		42 - 150	12/08/16 07:23	12/09/16 01:34	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011		0.0010	0.00044	mg/L		12/08/16 08:28	12/08/16 16:43	1
Barium	0.25		0.0025	0.00084	mg/L		12/08/16 08:28	12/08/16 16:43	1
Beryllium	0.00034	J	0.0010	0.00024	mg/L		12/08/16 08:28	12/08/16 16:43	1
Boron	1.1		0.10	0.049	mg/L		12/08/16 08:28	12/09/16 12:21	2
Cadmium	0.00024	J	0.00050	0.00019	mg/L		12/08/16 08:28	12/09/16 14:08	1
Calcium	190		0.20	0.11	mg/L		12/08/16 08:28	12/08/16 16:43	1
Chromium	0.012		0.0050	0.00061	mg/L		12/08/16 08:28	12/08/16 16:43	1
Cobalt	0.0023		0.0010	0.00019	mg/L		12/08/16 08:28	12/08/16 16:43	1
Copper	0.0054		0.0020	0.00096	mg/L		12/08/16 08:28	12/08/16 16:43	1
Iron	28		0.10	0.026	mg/L		12/08/16 08:28	12/08/16 16:43	1
Lead	0.060		0.00050	0.00014	mg/L		12/08/16 08:28	12/08/16 16:43	1
Magnesium	34		0.20	0.083	mg/L		12/08/16 08:28	12/08/16 16:43	1
Manganese	2.0		0.0025	0.00099	mg/L		12/08/16 08:28	12/08/16 16:43	1
Nickel	0.010		0.0020	0.00053	mg/L		12/08/16 08:28	12/08/16 16:43	1
Potassium	15		0.50	0.19	mg/L		12/08/16 08:28	12/08/16 16:43	1
Selenium	0.0020	J	0.0025	0.00083	mg/L		12/08/16 08:28	12/09/16 14:08	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/08/16 08:28	12/08/16 16:43	1
Sodium	100		0.20	0.088	mg/L		12/08/16 08:28	12/08/16 16:43	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/08/16 08:28	12/08/16 16:43	1
Vanadium	0.0081		0.0050	0.0022	mg/L		12/08/16 08:28	12/08/16 16:43	1
Zinc	0.13		0.020	0.0046	mg/L		12/08/16 08:28	12/08/16 16:43	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/12/16 14:00	12/14/16 09:48	1

TestAmerica Chicago

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

GC/MS VOA

Prep Batch: 364101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	5035	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	5035	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	5035	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	5035	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	5035	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	5035	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	5035	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	5035	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	5035	
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	5035	
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	5035	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	5035	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	5035	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	5035	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	5035	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	5035	
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	5035	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	5035	
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	5035	

Analysis Batch: 364189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	8260B	364101
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	8260B	364101
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	8260B	364101
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	8260B	364101
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	8260B	364101
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	8260B	364101
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	8260B	364101
MB 500-364189/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-364189/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364189/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 364387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	8260B	364101
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	8260B	364101
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	8260B	364101
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	8260B	364101
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	8260B	364101
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	8260B	364101
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	8260B	364101
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	8260B	364101
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	8260B	364101
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	8260B	364101
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	8260B	364101
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	8260B	364101
MB 500-364387/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-364387/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364387/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

GC/MS VOA (Continued)

Analysis Batch: 364795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total/NA	Water	8260B	
500-121121-6	1314V3-00-TB01	Total/NA	Water	8260B	
500-121121-22	1314V3-04-G01	Total/NA	Water	8260B	
MB 500-364795/6	Method Blank	Total/NA	Water	8260B	
LCS 500-364795/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 364105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total/NA	Water	3510C	
500-121121-22	1314V3-04-G01	Total/NA	Water	3510C	
MB 500-364105/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-364105/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-364105/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 364202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total/NA	Water	8270D	364105
500-121121-22	1314V3-04-G01	Total/NA	Water	8270D	364105
MB 500-364105/1-A	Method Blank	Total/NA	Water	8270D	364105
LCS 500-364105/2-A	Lab Control Sample	Total/NA	Water	8270D	364105
LCS 500-364105/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	364105

Prep Batch: 365000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	3541	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	3541	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	3541	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	3541	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	3541	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	3541	
500-121121-9 - DL	1314V3-01-B04 (0-6)	Total/NA	Solid	3541	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	3541	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	3541	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	3541	
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	3541	
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	3541	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	3541	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	3541	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	3541	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	3541	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	3541	
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	3541	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	3541	
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	3541	
MB 500-365000/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-365000/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	3541	
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

GC/MS Semi VOA (Continued)

Analysis Batch: 365128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-365000/1-A	Method Blank	Total/NA	Solid	8270D	365000
LCS 500-365000/2-A	Lab Control Sample	Total/NA	Solid	8270D	365000

Analysis Batch: 365175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	8270D	365000
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	8270D	365000
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	8270D	365000
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	8270D	365000
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	8270D	365000
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	8270D	365000
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	8270D	365000
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	8270D	365000
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	8270D	365000
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	8270D	365000
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	8270D	365000
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	8270D	365000
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	8270D	365000
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	8270D	365000
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	8270D	365000
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	8270D	365000
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	8270D	365000
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	8270D	365000
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	8270D	365000
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	8270D	365000

Analysis Batch: 365424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-9 - DL	1314V3-01-B04 (0-6)	Total/NA	Solid	8270D	365000
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	8270D	365000

Metals

Prep Batch: 364135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total Recoverable	Water	3005A	
500-121121-22	1314V3-04-G01	Total Recoverable	Water	3005A	
MB 500-364135/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-364135/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 364361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	3050B	
MB 500-364361/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-364361/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 364376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total Recoverable	Water	6020A	364135
500-121121-22	1314V3-04-G01	Total Recoverable	Water	6020A	364135

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Analysis Batch: 364376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364135/1-A	Method Blank	Total Recoverable	Water	6020A	364135
LCS 500-364135/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364135

Prep Batch: 364425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	7471B	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	7471B	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	7471B	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	7471B	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	7471B	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	7471B	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	7471B	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	7471B	
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	7471B	
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	7471B	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	7471B	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	7471B	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	7471B	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	7471B	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	7471B	
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	7471B	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	7471B	
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	7471B	
MB 500-364425/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-364425/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	
500-121121-1 DU	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 364442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total Recoverable	Water	6020A	364135
500-121121-5	1314V3-01-G01	Total Recoverable	Water	6020A	364135
500-121121-22	1314V3-04-G01	Total Recoverable	Water	6020A	364135
500-121121-22	1314V3-04-G01	Total Recoverable	Water	6020A	364135
MB 500-364135/1-A	Method Blank	Total Recoverable	Water	6020A	364135
LCS 500-364135/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364135

Prep Batch: 364512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	3050B	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	3050B	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	3050B	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	3050B	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	3050B	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	3050B	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	3050B	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	3050B	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	3050B	
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Prep Batch: 364512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	3050B	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	3050B	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	3050B	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	3050B	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	3050B	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	3050B	
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	3050B	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	3050B	
MB 500-364512/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-364512/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	3050B	
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	3050B	
500-121121-1 DU	1314V3-08-B01 (0-6)	Total/NA	Solid	3050B	

Leach Batch: 364517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	SPLP East	Solid	1312	
500-121121-2	1314V3-08-B01 (6-12)	SPLP East	Solid	1312	
500-121121-3	1314V3-01-B01 (0-6)	SPLP East	Solid	1312	
500-121121-4	1314V3-01-B01 (6-11)	SPLP East	Solid	1312	
500-121121-7	1314V3-01-B02 (0-8)	SPLP East	Solid	1312	
500-121121-8	1314V3-01-B03 (0-8)	SPLP East	Solid	1312	
500-121121-9	1314V3-01-B04 (0-6)	SPLP East	Solid	1312	
500-121121-10	1314V3-01-B04 (6-12)	SPLP East	Solid	1312	
500-121121-11	1314V3-01-B05 (0-6)	SPLP East	Solid	1312	
500-121121-12	1314V3-01-B05 (6-12)	SPLP East	Solid	1312	
500-121121-13	1314V3-01-B06 (0-8)	SPLP East	Solid	1312	
500-121121-16	1314V3-01-B07 (0-6)	SPLP East	Solid	1312	
500-121121-18	1314V3-01-B08 (0-4)	SPLP East	Solid	1312	
500-121121-20	1314V3-04-B01 (0-6)	SPLP East	Solid	1312	
500-121121-21	1314V3-04-B01 (6-11)	SPLP East	Solid	1312	
LB 500-364517/1-B	Method Blank	SPLP East	Solid	1312	
500-121121-1 MS	1314V3-08-B01 (0-6)	SPLP East	Solid	1312	
500-121121-1 DU	1314V3-08-B01 (0-6)	SPLP East	Solid	1312	

Leach Batch: 364526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	1311	
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	1311	
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	1311	
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	1311	
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	1311	
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	1311	
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	1311	
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	1311	
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	1311	
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	1311	
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	1311	
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	1311	
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	1311	
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Leach Batch: 364526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	1311	
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	1311	
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	1311	
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	1311	
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	1311	
LB 500-364526/1-B	Method Blank	TCLP	Solid	1311	
LB 500-364526/1-C	Method Blank	TCLP	Solid	1311	
500-121121-1 MS	1314V3-08-B01 (0-6)	TCLP	Solid	1311	
500-121121-10 MS	1314V3-01-B04 (6-12)	TCLP	Solid	1311	
500-121121-1 DU	1314V3-08-B01 (0-6)	TCLP	Solid	1311	
500-121121-10 DU	1314V3-01-B04 (6-12)	TCLP	Solid	1311	

Analysis Batch: 364597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	6010B	364512
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	6010B	364512
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	6010B	364512
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	6010B	364512
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	6010B	364512
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	6010B	364512
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	6010B	364512
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	6010B	364512
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	6010B	364512
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	6010B	364512
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	6010B	364512
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	6010B	364512
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	6010B	364512
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	6010B	364512
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	6010B	364512
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	6010B	364512
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	6010B	364512
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	6010B	364512
MB 500-364512/1-A	Method Blank	Total/NA	Solid	6010B	364512
LCS 500-364512/2-A	Lab Control Sample	Total/NA	Solid	6010B	364512
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	6010B	364512
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	6010B	364512
500-121121-1 DU	1314V3-08-B01 (0-6)	Total/NA	Solid	6010B	364512

Prep Batch: 364619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	SPLP East	Solid	3010A	364517
500-121121-2	1314V3-08-B01 (6-12)	SPLP East	Solid	3010A	364517
500-121121-3	1314V3-01-B01 (0-6)	SPLP East	Solid	3010A	364517
500-121121-4	1314V3-01-B01 (6-11)	SPLP East	Solid	3010A	364517
500-121121-7	1314V3-01-B02 (0-8)	SPLP East	Solid	3010A	364517
500-121121-8	1314V3-01-B03 (0-8)	SPLP East	Solid	3010A	364517
500-121121-9	1314V3-01-B04 (0-6)	SPLP East	Solid	3010A	364517
500-121121-10	1314V3-01-B04 (6-12)	SPLP East	Solid	3010A	364517
500-121121-11	1314V3-01-B05 (0-6)	SPLP East	Solid	3010A	364517
500-121121-12	1314V3-01-B05 (6-12)	SPLP East	Solid	3010A	364517
500-121121-13	1314V3-01-B06 (0-8)	SPLP East	Solid	3010A	364517

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Prep Batch: 364619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-16	1314V3-01-B07 (0-6)	SPLP East	Solid	3010A	364517
500-121121-18	1314V3-01-B08 (0-4)	SPLP East	Solid	3010A	364517
500-121121-20	1314V3-04-B01 (0-6)	SPLP East	Solid	3010A	364517
500-121121-21	1314V3-04-B01 (6-11)	SPLP East	Solid	3010A	364517
LB 500-364517/1-B	Method Blank	SPLP East	Solid	3010A	364517
LCS 500-364619/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121121-1 MS	1314V3-08-B01 (0-6)	SPLP East	Solid	3010A	364517
500-121121-1 DU	1314V3-08-B01 (0-6)	SPLP East	Solid	3010A	364517

Prep Batch: 364662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364526
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	7470A	364526
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	7470A	364526
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	7470A	364526
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	7470A	364526
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	7470A	364526
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	7470A	364526
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	7470A	364526
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	7470A	364526
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	7470A	364526
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	7470A	364526
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	7470A	364526
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	7470A	364526
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	7470A	364526
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	7470A	364526
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	7470A	364526
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	7470A	364526
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	7470A	364526
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	7470A	364526
LB 500-364526/1-B	Method Blank	TCLP	Solid	7470A	364526
MB 500-364662/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-364662/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121121-1 MS	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364526
500-121121-1 DU	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364526

Prep Batch: 364699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total/NA	Water	7470A	
500-121121-22	1314V3-04-G01	Total/NA	Water	7470A	
MB 500-364699/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-364699/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 364704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	364425
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	7471B	364425
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	7471B	364425
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	7471B	364425
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	7471B	364425
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	7471B	364425

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Analysis Batch: 364704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	7471B	364425
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	7471B	364425
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	7471B	364425
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	7471B	364425
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	7471B	364425
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	7471B	364425
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	7471B	364425
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	7471B	364425
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	7471B	364425
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	7471B	364425
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	7471B	364425
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	7471B	364425
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	7471B	364425
MB 500-364425/12-A	Method Blank	Total/NA	Solid	7471B	364425
LCS 500-364425/13-A	Lab Control Sample	Total/NA	Solid	7471B	364425
500-121121-1 MS	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	364425
500-121121-1 MSD	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	364425
500-121121-1 DU	1314V3-08-B01 (0-6)	Total/NA	Solid	7471B	364425

Analysis Batch: 364788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	6010B	364361
MB 500-364361/1-A	Method Blank	Total/NA	Solid	6010B	364361
LCS 500-364361/2-A	Lab Control Sample	Total/NA	Solid	6010B	364361

Prep Batch: 364799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	3010A	364526
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	3010A	364526
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	3010A	364526
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	3010A	364526
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	3010A	364526
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	3010A	364526
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	3010A	364526
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	3010A	364526
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	3010A	364526
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	3010A	364526
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	3010A	364526
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	3010A	364526
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	3010A	364526
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	3010A	364526
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	3010A	364526
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	3010A	364526
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	3010A	364526
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	3010A	364526
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	3010A	364526
LB 500-364526/1-C	Method Blank	TCLP	Solid	3010A	364526
LCS 500-364799/2-A	Lab Control Sample	Total/NA	Solid	3010A	364526
500-121121-10 MS	1314V3-01-B04 (6-12)	TCLP	Solid	3010A	364526
500-121121-10 DU	1314V3-01-B04 (6-12)	TCLP	Solid	3010A	364526

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Analysis Batch: 364856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	SPLP East	Solid	6010B	364619
500-121121-2	1314V3-08-B01 (6-12)	SPLP East	Solid	6010B	364619
500-121121-3	1314V3-01-B01 (0-6)	SPLP East	Solid	6010B	364619
500-121121-4	1314V3-01-B01 (6-11)	SPLP East	Solid	6010B	364619
500-121121-7	1314V3-01-B02 (0-8)	SPLP East	Solid	6010B	364619
500-121121-8	1314V3-01-B03 (0-8)	SPLP East	Solid	6010B	364619
500-121121-9	1314V3-01-B04 (0-6)	SPLP East	Solid	6010B	364619
500-121121-10	1314V3-01-B04 (6-12)	SPLP East	Solid	6010B	364619
500-121121-11	1314V3-01-B05 (0-6)	SPLP East	Solid	6010B	364619
500-121121-12	1314V3-01-B05 (6-12)	SPLP East	Solid	6010B	364619
500-121121-13	1314V3-01-B06 (0-8)	SPLP East	Solid	6010B	364619
500-121121-16	1314V3-01-B07 (0-6)	SPLP East	Solid	6010B	364619
500-121121-18	1314V3-01-B08 (0-4)	SPLP East	Solid	6010B	364619
500-121121-20	1314V3-04-B01 (0-6)	SPLP East	Solid	6010B	364619
500-121121-21	1314V3-04-B01 (6-11)	SPLP East	Solid	6010B	364619
LB 500-364517/1-B	Method Blank	SPLP East	Solid	6010B	364619
LCS 500-364619/2-A	Lab Control Sample	Total/NA	Solid	6010B	364619
500-121121-1 MS	1314V3-08-B01 (0-6)	SPLP East	Solid	6010B	364619
500-121121-1 DU	1314V3-08-B01 (0-6)	SPLP East	Solid	6010B	364619

Analysis Batch: 364926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364662
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	7470A	364662
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	7470A	364662
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	7470A	364662
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	7470A	364662
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	7470A	364662
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	7470A	364662
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	7470A	364662
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	7470A	364662
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	7470A	364662
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	7470A	364662
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	7470A	364662
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	7470A	364662
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	7470A	364662
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	7470A	364662
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	7470A	364662
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	7470A	364662
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	7470A	364662
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	7470A	364662
LB 500-364526/1-B	Method Blank	TCLP	Solid	7470A	364662
MB 500-364662/12-A	Method Blank	Total/NA	Solid	7470A	364662
LCS 500-364662/13-A	Lab Control Sample	Total/NA	Solid	7470A	364662
500-121121-1 MS	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364662
500-121121-1 DU	1314V3-08-B01 (0-6)	TCLP	Solid	7470A	364662

Analysis Batch: 365009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	6010B	364799
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	6010B	364799

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Analysis Batch: 365009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	6010B	364799
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	6010B	364799
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	6010B	364799
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	6010B	364799
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	6010B	364799
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	6010B	364799
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	6010B	364799
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	6010B	364799
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	6010B	364799
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	6010B	364799
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	6010B	364799
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	6010B	364799
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	6010B	364799
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	6010B	364799
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	6010B	364799
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	6010B	364799
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	6010B	364799
LB 500-364526/1-C	Method Blank	TCLP	Solid	6010B	364799
LCS 500-364799/2-A	Lab Control Sample	Total/NA	Solid	6010B	364799
500-121121-10 MS	1314V3-01-B04 (6-12)	TCLP	Solid	6010B	364799
500-121121-10 DU	1314V3-01-B04 (6-12)	TCLP	Solid	6010B	364799

Analysis Batch: 365046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	TCLP	Solid	6020A	364799
500-121121-2	1314V3-08-B01 (6-12)	TCLP	Solid	6020A	364799
500-121121-3	1314V3-01-B01 (0-6)	TCLP	Solid	6020A	364799
500-121121-4	1314V3-01-B01 (6-11)	TCLP	Solid	6020A	364799
500-121121-7	1314V3-01-B02 (0-8)	TCLP	Solid	6020A	364799
500-121121-8	1314V3-01-B03 (0-8)	TCLP	Solid	6020A	364799
500-121121-9	1314V3-01-B04 (0-6)	TCLP	Solid	6020A	364799
500-121121-10	1314V3-01-B04 (6-12)	TCLP	Solid	6020A	364799
500-121121-11	1314V3-01-B05 (0-6)	TCLP	Solid	6020A	364799
500-121121-12	1314V3-01-B05 (6-12)	TCLP	Solid	6020A	364799
500-121121-13	1314V3-01-B06 (0-8)	TCLP	Solid	6020A	364799
500-121121-14	1314V3-01-B06 (8-15)	TCLP	Solid	6020A	364799
500-121121-15	1314V3-01-B06 (8-15)D	TCLP	Solid	6020A	364799
500-121121-16	1314V3-01-B07 (0-6)	TCLP	Solid	6020A	364799
500-121121-17	1314V3-01-B07 (6-12)	TCLP	Solid	6020A	364799
500-121121-18	1314V3-01-B08 (0-4)	TCLP	Solid	6020A	364799
500-121121-19	1314V3-01-B08 (4-9)	TCLP	Solid	6020A	364799
500-121121-20	1314V3-04-B01 (0-6)	TCLP	Solid	6020A	364799
500-121121-21	1314V3-04-B01 (6-11)	TCLP	Solid	6020A	364799
LB 500-364526/1-C	Method Blank	TCLP	Solid	6020A	364799
LCS 500-364799/2-A	Lab Control Sample	Total/NA	Solid	6020A	364799
500-121121-10 MS	1314V3-01-B04 (6-12)	TCLP	Solid	6020A	364799
500-121121-10 DU	1314V3-01-B04 (6-12)	TCLP	Solid	6020A	364799

Analysis Batch: 365078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-5	1314V3-01-G01	Total/NA	Water	7470A	364699

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Metals (Continued)

Analysis Batch: 365078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-22	1314V3-04-G01	Total/NA	Water	7470A	364699
MB 500-364699/12-A	Method Blank	Total/NA	Water	7470A	364699
LCS 500-364699/13-A	Lab Control Sample	Total/NA	Water	7470A	364699

Analysis Batch: 365122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	SPLP East	Solid	6020A	364619
LB 500-364517/1-B	Method Blank	SPLP East	Solid	6020A	364619
LCS 500-364619/2-A	Lab Control Sample	Total/NA	Solid	6020A	364619
500-121121-1 MS	1314V3-08-B01 (0-6)	SPLP East	Solid	6020A	364619
500-121121-1 DU	1314V3-08-B01 (0-6)	SPLP East	Solid	6020A	364619

General Chemistry

Analysis Batch: 364234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	Moisture	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	Moisture	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	Moisture	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	Moisture	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	Moisture	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	Moisture	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	Moisture	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	Moisture	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	Moisture	
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	Moisture	
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	Moisture	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	Moisture	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	Moisture	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	Moisture	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	Moisture	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 364248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	Moisture	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	Moisture	
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	Moisture	

Analysis Batch: 364502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-1	1314V3-08-B01 (0-6)	Total/NA	Solid	9045D	
500-121121-2	1314V3-08-B01 (6-12)	Total/NA	Solid	9045D	
500-121121-3	1314V3-01-B01 (0-6)	Total/NA	Solid	9045D	
500-121121-4	1314V3-01-B01 (6-11)	Total/NA	Solid	9045D	
500-121121-7	1314V3-01-B02 (0-8)	Total/NA	Solid	9045D	
500-121121-8	1314V3-01-B03 (0-8)	Total/NA	Solid	9045D	
500-121121-9	1314V3-01-B04 (0-6)	Total/NA	Solid	9045D	
500-121121-10	1314V3-01-B04 (6-12)	Total/NA	Solid	9045D	
500-121121-11	1314V3-01-B05 (0-6)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

General Chemistry (Continued)

Analysis Batch: 364502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121121-12	1314V3-01-B05 (6-12)	Total/NA	Solid	9045D	
500-121121-13	1314V3-01-B06 (0-8)	Total/NA	Solid	9045D	
500-121121-14	1314V3-01-B06 (8-15)	Total/NA	Solid	9045D	
500-121121-15	1314V3-01-B06 (8-15)D	Total/NA	Solid	9045D	
500-121121-16	1314V3-01-B07 (0-6)	Total/NA	Solid	9045D	
500-121121-17	1314V3-01-B07 (6-12)	Total/NA	Solid	9045D	
500-121121-18	1314V3-01-B08 (0-4)	Total/NA	Solid	9045D	
500-121121-19	1314V3-01-B08 (4-9)	Total/NA	Solid	9045D	
500-121121-20	1314V3-04-B01 (0-6)	Total/NA	Solid	9045D	
500-121121-21	1314V3-04-B01 (6-11)	Total/NA	Solid	9045D	
500-121121-17 DU	1314V3-01-B07 (6-12)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - VOC

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-121121-5	1314V3-01-G01	86	90	89	92
500-121121-6	1314V3-00-TB01	89	91	90	93
500-121121-22	1314V3-04-G01	89	92	89	92
LCS 500-364795/4	Lab Control Sample	88	97	90	92
MB 500-364795/6	Method Blank	89	93	91	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-120)	(75-120)	(69-134)	(75-123)
500-121121-1	1314V3-08-B01 (0-6)	97	118	125	107
500-121121-2	1314V3-08-B01 (6-12)	102	117	120	107
500-121121-3	1314V3-01-B01 (0-6)	91	117	114	114
500-121121-4	1314V3-01-B01 (6-11)	95	115	117	110
500-121121-7	1314V3-01-B02 (0-8)	101	119	126	107
500-121121-8	1314V3-01-B03 (0-8)	94	115	113	110
500-121121-9	1314V3-01-B04 (0-6)	94	113	116	110
500-121121-10	1314V3-01-B04 (6-12)	98	115	117	108
500-121121-11	1314V3-01-B05 (0-6)	89	115	117	110
500-121121-12	1314V3-01-B05 (6-12)	93	117	119	110
500-121121-13	1314V3-01-B06 (0-8)	91	117	121	113
500-121121-14	1314V3-01-B06 (8-15)	98	115	121	106
500-121121-15	1314V3-01-B06 (8-15)D	104	118	123	107
500-121121-16	1314V3-01-B07 (0-6)	93	116	123	112
500-121121-17	1314V3-01-B07 (6-12)	97	116	118	108
500-121121-18	1314V3-01-B08 (0-4)	100	117	125	107
500-121121-19	1314V3-01-B08 (4-9)	100	117	115	106
500-121121-20	1314V3-04-B01 (0-6)	96	118	116	107
500-121121-21	1314V3-04-B01 (6-11)	102	117	119	107
LCS 500-364189/4	Lab Control Sample	111	110	111	106
LCS 500-364387/5	Lab Control Sample	112	111	111	107
LCSD 500-364189/5	Lab Control Sample Dup	107	111	108	109
LCSD 500-364387/6	Lab Control Sample Dup	111	113	107	110
MB 500-364189/7	Method Blank	106	117	117	105
MB 500-364387/7	Method Blank	102	114	116	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121121-1	1314V3-08-B01 (0-6)	104	107	93	88	82	96
500-121121-1 MS	1314V3-08-B01 (0-6)	17 X	111	93	86	65	96
500-121121-1 MSD	1314V3-08-B01 (0-6)	91	101	83	78	72	90
500-121121-2	1314V3-08-B01 (6-12)	91	93	88	79	67	92
500-121121-3	1314V3-01-B01 (0-6)	99	81	84	80	73	87
500-121121-4	1314V3-01-B01 (6-11)	96	92	81	75	69	84
500-121121-7	1314V3-01-B02 (0-8)	95	93	79	72	67	89
500-121121-8	1314V3-01-B03 (0-8)	95	64	88	80	69	91
500-121121-9	1314V3-01-B04 (0-6)	96	87	87	82	65	90
500-121121-9 - DL	1314V3-01-B04 (0-6)	95	37	92	95	57	109
500-121121-10	1314V3-01-B04 (6-12)	87	56	80	74	29	97
500-121121-11	1314V3-01-B05 (0-6)	98	54	94	84	51	87
500-121121-12	1314V3-01-B05 (6-12)	92	50	91	82	50	84
500-121121-13	1314V3-01-B06 (0-8)	97	62	95	84	66	85
500-121121-14	1314V3-01-B06 (8-15)	102	69	95	89	53	92
500-121121-15	1314V3-01-B06 (8-15)D	106	80	100	92	54	94
500-121121-16	1314V3-01-B07 (0-6)	107	74	99	92	63	88
500-121121-17	1314V3-01-B07 (6-12)	114	90	105	97	25	98
500-121121-18	1314V3-01-B08 (0-4)	101	86	95	86	55	90
500-121121-19	1314V3-01-B08 (4-9)	104	90	95	90	48	92
500-121121-20	1314V3-04-B01 (0-6)	98	77	91	82	64	87
500-121121-21	1314V3-04-B01 (6-11)	101	104	92	87	73	94
LCS 500-365000/2-A	Lab Control Sample	105	98	89	88	103	96
MB 500-365000/1-A	Method Blank	107	99	99	89	98	99

Surrogate Legend

- 2FP = 2-Fluorophenol
- PHL = Phenol-d5
- NBZ = Nitrobenzene-d5
- FBP = 2-Fluorobiphenyl
- TBP = 2,4,6-Tribromophenol
- TPH = Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (30-150)	FBP (30-123)	2FP (30-110)	NBZ (33-139)	PHL (20-100)	TPH (42-150)
500-121121-5	1314V3-01-G01	85	58	53	60	43	95
500-121121-22	1314V3-04-G01	81	54	44	56	39	85
LCS 500-364105/2-A	Lab Control Sample	109	75	75	78	62	97
LCSD 500-364105/3-A	Lab Control Sample Dup	101	69	67	71	56	95
MB 500-364105/1-A	Method Blank	91	74	69	77	56	97

Surrogate Legend

- TBP = 2,4,6-Tribromophenol
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

PHL = Phenol-d5
TPH = Terphenyl-d14

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - VOC

Lab Sample ID: MB 500-364795/6
Matrix: Water
Analysis Batch: 364795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/13/16 11:01	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:01	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:01	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/13/16 11:01	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/13/16 11:01	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/13/16 11:01	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:01	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:01	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/13/16 11:01	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:01	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/13/16 11:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:01	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:01	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/13/16 11:01	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/13/16 11:01	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:01	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:01	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/13/16 11:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/13/16 11:01	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/13/16 11:01	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:01	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/13/16 11:01	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/13/16 11:01	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/13/16 11:01	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:01	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/13/16 11:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/13/16 11:01	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/13/16 11:01	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/13/16 11:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:01	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/13/16 11:01	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/13/16 11:01	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/13/16 11:01	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/13/16 11:01	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/13/16 11:01	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/13/16 11:01	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/13/16 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		71 - 120		12/13/16 11:01	1
Dibromofluoromethane	93		70 - 120		12/13/16 11:01	1
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		12/13/16 11:01	1
Toluene-d8 (Surr)	94		75 - 120		12/13/16 11:01	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - VOC (Continued)

Lab Sample ID: LCS 500-364795/4

Matrix: Water

Analysis Batch: 364795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0438		mg/L		88	37 - 141
Benzene	0.0500	0.0469		mg/L		94	70 - 125
Bromodichloromethane	0.0500	0.0434		mg/L		87	70 - 125
Bromoform	0.0500	0.0423		mg/L		85	54 - 128
Bromomethane	0.0500	0.0489		mg/L		98	40 - 150
Carbon disulfide	0.0500	0.0473		mg/L		95	68 - 125
Carbon tetrachloride	0.0500	0.0496		mg/L		99	70 - 125
Chlorobenzene	0.0500	0.0467		mg/L		93	70 - 125
Chloroethane	0.0500	0.0446		mg/L		89	60 - 139
Chloroform	0.0500	0.0458		mg/L		92	70 - 125
Chloromethane	0.0500	0.0525		mg/L		105	60 - 140
cis-1,2-Dichloroethene	0.0500	0.0489		mg/L		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0437		mg/L		87	70 - 125
Dibromochloromethane	0.0500	0.0447		mg/L		89	66 - 125
1,1-Dichloroethane	0.0500	0.0462		mg/L		92	70 - 125
1,2-Dichloroethane	0.0500	0.0428		mg/L		86	70 - 125
1,1-Dichloroethene	0.0500	0.0478		mg/L		96	70 - 125
1,2-Dichloropropane	0.0500	0.0469		mg/L		94	70 - 125
Ethylbenzene	0.0500	0.0457		mg/L		91	70 - 125
2-Hexanone	0.0500	0.0508		mg/L		102	49 - 139
Methyl Ethyl Ketone	0.0500	0.0481		mg/L		96	52 - 142
Methylene Chloride	0.0500	0.0436		mg/L		87	68 - 125
methyl isobutyl ketone	0.0500	0.0480		mg/L		96	47 - 140
Methyl tert-butyl ether	0.0500	0.0452		mg/L		90	67 - 125
Styrene	0.0500	0.0447		mg/L		89	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0442		mg/L		88	68 - 125
Tetrachloroethene	0.0500	0.0502		mg/L		100	70 - 125
Toluene	0.0500	0.0464		mg/L		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0484		mg/L		97	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0418		mg/L		84	70 - 125
1,1,1-Trichloroethane	0.0500	0.0489		mg/L		98	70 - 125
1,1,2-Trichloroethane	0.0500	0.0440		mg/L		88	70 - 125
Trichloroethene	0.0500	0.0495		mg/L		99	70 - 125
Vinyl acetate	0.0500	0.0419		mg/L		84	30 - 160
Vinyl chloride	0.0500	0.0533		mg/L		107	70 - 126
Xylenes, Total	0.100	0.0892		mg/L		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		71 - 120
Dibromofluoromethane	97		70 - 120
1,2-Dichloroethane-d4 (Surr)	90		71 - 127
Toluene-d8 (Surr)	92		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364189/7

Matrix: Solid

Analysis Batch: 364189

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/08/16 16:27	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/08/16 16:27	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/08/16 16:27	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/08/16 16:27	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/08/16 16:27	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/08/16 16:27	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/08/16 16:27	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/08/16 16:27	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/08/16 16:27	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/08/16 16:27	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/08/16 16:27	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/08/16 16:27	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/08/16 16:27	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/08/16 16:27	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/08/16 16:27	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/08/16 16:27	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/08/16 16:27	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/08/16 16:27	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			12/08/16 16:27	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/08/16 16:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/08/16 16:27	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/08/16 16:27	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/08/16 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/08/16 16:27	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/08/16 16:27	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/08/16 16:27	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/08/16 16:27	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/08/16 16:27	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/08/16 16:27	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/08/16 16:27	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/08/16 16:27	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/08/16 16:27	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/08/16 16:27	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/08/16 16:27	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/08/16 16:27	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/08/16 16:27	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/08/16 16:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120		12/08/16 16:27	1
Dibromofluoromethane	117		75 - 120		12/08/16 16:27	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 134		12/08/16 16:27	1
Toluene-d8 (Surr)	105		75 - 123		12/08/16 16:27	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364189/4
Matrix: Solid
Analysis Batch: 364189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0572		mg/Kg		114	40 - 148
Benzene	0.0500	0.0481		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0492		mg/Kg		98	67 - 120
Bromoform	0.0500	0.0505		mg/Kg		101	50 - 129
Bromomethane	0.0500	0.0427		mg/Kg		85	50 - 134
Carbon disulfide	0.0500	0.0483		mg/Kg		97	67 - 133
Carbon tetrachloride	0.0500	0.0502		mg/Kg		100	65 - 123
Chlorobenzene	0.0500	0.0459		mg/Kg		92	70 - 120
Chloroethane	0.0500	0.0410		mg/Kg		82	40 - 150
Chloroform	0.0500	0.0491		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0494		mg/Kg		99	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	70 - 120
Dibromochloromethane	0.0500	0.0495		mg/Kg		99	68 - 120
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0525		mg/Kg		105	65 - 126
1,1-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 122
1,2-Dichloropropane	0.0500	0.0483		mg/Kg		97	70 - 126
Ethylbenzene	0.0500	0.0458		mg/Kg		92	70 - 120
2-Hexanone	0.0500	0.0524		mg/Kg		105	51 - 139
2-Butanone (MEK)	0.0500	0.0550		mg/Kg		110	47 - 138
Methylene Chloride	0.0500	0.0507		mg/Kg		101	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0520		mg/Kg		104	51 - 141
Methyl tert-butyl ether	0.0500	0.0518		mg/Kg		104	70 - 121
Styrene	0.0500	0.0490		mg/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0450		mg/Kg		90	70 - 125
Tetrachloroethene	0.0500	0.0477		mg/Kg		95	70 - 122
Toluene	0.0500	0.0463		mg/Kg		93	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 121
1,1,1-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 120
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0490		mg/Kg		98	70 - 124
Vinyl acetate	0.0500	0.0423		mg/Kg		85	40 - 150
Vinyl chloride	0.0500	0.0473		mg/Kg		95	64 - 125
Xylenes, Total	0.100	0.0959		mg/Kg		96	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 120
Dibromofluoromethane	110		75 - 120
1,2-Dichloroethane-d4 (Surr)	111		69 - 134
Toluene-d8 (Surr)	106		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364189/5
Matrix: Solid
Analysis Batch: 364189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0459		mg/Kg		92	40 - 148	22	30
Benzene	0.0500	0.0453		mg/Kg		91	70 - 120	6	30
Bromodichloromethane	0.0500	0.0449		mg/Kg		90	67 - 120	9	30
Bromoform	0.0500	0.0444		mg/Kg		89	50 - 129	13	30
Bromomethane	0.0500	0.0533		mg/Kg		107	50 - 134	22	30
Carbon disulfide	0.0500	0.0445		mg/Kg		89	67 - 133	8	30
Carbon tetrachloride	0.0500	0.0463		mg/Kg		93	65 - 123	8	30
Chlorobenzene	0.0500	0.0431		mg/Kg		86	70 - 120	6	30
Chloroethane	0.0500	0.0456		mg/Kg		91	40 - 150	11	30
Chloroform	0.0500	0.0466		mg/Kg		93	70 - 120	5	30
Chloromethane	0.0500	0.0468		mg/Kg		94	63 - 135	6	30
cis-1,2-Dichloroethene	0.0500	0.0459		mg/Kg		92	70 - 120	6	30
cis-1,3-Dichloropropene	0.0500	0.0442		mg/Kg		88	70 - 120	8	30
Dibromochloromethane	0.0500	0.0450		mg/Kg		90	68 - 120	10	30
1,1-Dichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	65 - 126	10	30
1,1-Dichloroethene	0.0500	0.0426		mg/Kg		85	70 - 122	13	30
1,2-Dichloropropane	0.0500	0.0443		mg/Kg		89	70 - 126	9	30
Ethylbenzene	0.0500	0.0425		mg/Kg		85	70 - 120	7	30
2-Hexanone	0.0500	0.0445		mg/Kg		89	51 - 139	16	30
2-Butanone (MEK)	0.0500	0.0411		mg/Kg		82	47 - 138	29	30
Methylene Chloride	0.0500	0.0478		mg/Kg		96	70 - 121	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0434		mg/Kg		87	51 - 141	18	30
Methyl tert-butyl ether	0.0500	0.0462		mg/Kg		92	70 - 121	12	30
Styrene	0.0500	0.0434		mg/Kg		87	70 - 121	12	30
1,1,1,2-Tetrachloroethane	0.0500	0.0431		mg/Kg		86	70 - 125	4	30
Tetrachloroethene	0.0500	0.0442		mg/Kg		88	70 - 122	8	30
Toluene	0.0500	0.0440		mg/Kg		88	70 - 121	5	30
trans-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	6	30
trans-1,3-Dichloropropene	0.0500	0.0451		mg/Kg		90	70 - 121	9	30
1,1,1-Trichloroethane	0.0500	0.0457		mg/Kg		91	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 120	11	30
Trichloroethene	0.0500	0.0457		mg/Kg		91	70 - 124	7	30
Vinyl acetate	0.0500	0.0375		mg/Kg		75	40 - 150	12	30
Vinyl chloride	0.0500	0.0442		mg/Kg		88	64 - 125	7	30
Xylenes, Total	0.100	0.0880		mg/Kg		88	70 - 123	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	107		70 - 120
Dibromofluoromethane	111		75 - 120
1,2-Dichloroethane-d4 (Surr)	108		69 - 134
Toluene-d8 (Surr)	109		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364387/7

Matrix: Solid

Analysis Batch: 364387

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/09/16 16:04	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/09/16 16:04	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/09/16 16:04	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/09/16 16:04	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/09/16 16:04	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/09/16 16:04	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/09/16 16:04	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/09/16 16:04	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/09/16 16:04	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 16:04	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/09/16 16:04	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/09/16 16:04	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/09/16 16:04	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/09/16 16:04	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 16:04	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/09/16 16:04	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 16:04	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/09/16 16:04	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/09/16 16:04	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/09/16 16:04	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/09/16 16:04	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/09/16 16:04	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/09/16 16:04	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/09/16 16:04	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/09/16 16:04	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/09/16 16:04	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/09/16 16:04	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/09/16 16:04	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/09/16 16:04	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/09/16 16:04	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/09/16 16:04	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/09/16 16:04	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/09/16 16:04	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/09/16 16:04	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/09/16 16:04	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/09/16 16:04	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/09/16 16:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120		12/09/16 16:04	1
Dibromofluoromethane	114		75 - 120		12/09/16 16:04	1
1,2-Dichloroethane-d4 (Surr)	116		69 - 134		12/09/16 16:04	1
Toluene-d8 (Surr)	108		75 - 123		12/09/16 16:04	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364387/5

Matrix: Solid

Analysis Batch: 364387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0455		mg/Kg		91	40 - 148
Benzene	0.0500	0.0463		mg/Kg		93	70 - 120
Bromodichloromethane	0.0500	0.0459		mg/Kg		92	67 - 120
Bromoform	0.0500	0.0464		mg/Kg		93	50 - 129
Bromomethane	0.0500	0.0493		mg/Kg		99	50 - 134
Carbon disulfide	0.0500	0.0474		mg/Kg		95	67 - 133
Carbon tetrachloride	0.0500	0.0510		mg/Kg		102	65 - 123
Chlorobenzene	0.0500	0.0456		mg/Kg		91	70 - 120
Chloroethane	0.0500	0.0451		mg/Kg		90	40 - 150
Chloroform	0.0500	0.0480		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0482		mg/Kg		96	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 120
Dibromochloromethane	0.0500	0.0471		mg/Kg		94	68 - 120
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0502		mg/Kg		100	65 - 126
1,1-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 122
1,2-Dichloropropane	0.0500	0.0461		mg/Kg		92	70 - 126
Ethylbenzene	0.0500	0.0473		mg/Kg		95	70 - 120
2-Hexanone	0.0500	0.0399		mg/Kg		80	51 - 139
2-Butanone (MEK)	0.0500	0.0414		mg/Kg		83	47 - 138
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0412		mg/Kg		82	51 - 141
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	70 - 121
Styrene	0.0500	0.0476		mg/Kg		95	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0421		mg/Kg		84	70 - 125
Tetrachloroethene	0.0500	0.0487		mg/Kg		97	70 - 122
Toluene	0.0500	0.0454		mg/Kg		91	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 121
1,1,1-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 120
1,1,2-Trichloroethane	0.0500	0.0441		mg/Kg		88	70 - 120
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 124
Vinyl acetate	0.0500	0.0359		mg/Kg		72	40 - 150
Vinyl chloride	0.0500	0.0477		mg/Kg		95	64 - 125
Xylenes, Total	0.100	0.0942		mg/Kg		94	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 120
Dibromofluoromethane	111		75 - 120
1,2-Dichloroethane-d4 (Surr)	111		69 - 134
Toluene-d8 (Surr)	107		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364387/6

Matrix: Solid

Analysis Batch: 364387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0506		mg/Kg		101	40 - 148	11	30
Benzene	0.0500	0.0488		mg/Kg		98	70 - 120	5	30
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 120	3	30
Bromoform	0.0500	0.0506		mg/Kg		101	50 - 129	9	30
Bromomethane	0.0500	0.0490		mg/Kg		98	50 - 134	1	30
Carbon disulfide	0.0500	0.0505		mg/Kg		101	67 - 133	6	30
Carbon tetrachloride	0.0500	0.0537		mg/Kg		107	65 - 123	5	30
Chlorobenzene	0.0500	0.0478		mg/Kg		96	70 - 120	5	30
Chloroethane	0.0500	0.0458		mg/Kg		92	40 - 150	2	30
Chloroform	0.0500	0.0496		mg/Kg		99	70 - 120	3	30
Chloromethane	0.0500	0.0471		mg/Kg		94	63 - 135	2	30
cis-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120	5	30
cis-1,3-Dichloropropene	0.0500	0.0470		mg/Kg		94	70 - 120	1	30
Dibromochloromethane	0.0500	0.0470		mg/Kg		94	68 - 120	0	30
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0509		mg/Kg		102	65 - 126	1	30
1,1-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 122	3	30
1,2-Dichloropropane	0.0500	0.0470		mg/Kg		94	70 - 126	2	30
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 120	4	30
2-Hexanone	0.0500	0.0455		mg/Kg		91	51 - 139	13	30
2-Butanone (MEK)	0.0500	0.0452		mg/Kg		90	47 - 138	9	30
Methylene Chloride	0.0500	0.0492		mg/Kg		98	70 - 121	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0461		mg/Kg		92	51 - 141	11	30
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	70 - 121	2	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 121	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 125	3	30
Tetrachloroethene	0.0500	0.0511		mg/Kg		102	70 - 122	5	30
Toluene	0.0500	0.0482		mg/Kg		96	70 - 121	6	30
trans-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120	4	30
trans-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 121	7	30
1,1,1-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 120	11	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 120	2	30
Trichloroethene	0.0500	0.0514		mg/Kg		103	70 - 124	8	30
Vinyl acetate	0.0500	0.0361		mg/Kg		72	40 - 150	1	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	64 - 125	2	30
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 123	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	111		70 - 120
Dibromofluoromethane	113		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364105/1-A

Matrix: Water

Analysis Batch: 364202

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/08/16 07:23	12/08/16 17:20	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/08/16 07:23	12/08/16 17:20	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/08/16 07:23	12/08/16 17:20	1
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		12/08/16 07:23	12/08/16 17:20	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		12/08/16 07:23	12/08/16 17:20	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/08/16 07:23	12/08/16 17:20	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		12/08/16 07:23	12/08/16 17:20	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		12/08/16 07:23	12/08/16 17:20	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Nitrophenol	<0.016		0.016	0.0059	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/08/16 07:23	12/08/16 17:20	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/08/16 07:23	12/08/16 17:20	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/08/16 07:23	12/08/16 17:20	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/08/16 07:23	12/08/16 17:20	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		12/08/16 07:23	12/08/16 17:20	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		12/08/16 07:23	12/08/16 17:20	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/08/16 07:23	12/08/16 17:20	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/08/16 07:23	12/08/16 17:20	1
Diethyl phthalate	<0.0016		0.0016	0.00029	mg/L		12/08/16 07:23	12/08/16 17:20	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/08/16 07:23	12/08/16 17:20	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00058	mg/L		12/08/16 07:23	12/08/16 17:20	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/08/16 07:23	12/08/16 17:20	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		12/08/16 07:23	12/08/16 17:20	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		12/08/16 07:23	12/08/16 17:20	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		12/08/16 07:23	12/08/16 17:20	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/08/16 07:23	12/08/16 17:20	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/08/16 07:23	12/08/16 17:20	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		12/08/16 07:23	12/08/16 17:20	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/08/16 07:23	12/08/16 17:20	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		12/08/16 07:23	12/08/16 17:20	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/08/16 07:23	12/08/16 17:20	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		12/08/16 07:23	12/08/16 17:20	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/08/16 07:23	12/08/16 17:20	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364105/1-A
Matrix: Water
Analysis Batch: 364202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		12/08/16 07:23	12/08/16 17:20	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		12/08/16 07:23	12/08/16 17:20	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/08/16 07:23	12/08/16 17:20	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		12/08/16 07:23	12/08/16 17:20	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		12/08/16 07:23	12/08/16 17:20	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		12/08/16 07:23	12/08/16 17:20	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		12/08/16 07:23	12/08/16 17:20	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/08/16 07:23	12/08/16 17:20	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		12/08/16 07:23	12/08/16 17:20	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/08/16 07:23	12/08/16 17:20	1
N-Nitrosodiphenylamine	<0.00080		0.00080	0.00030	mg/L		12/08/16 07:23	12/08/16 17:20	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/08/16 07:23	12/08/16 17:20	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		12/08/16 07:23	12/08/16 17:20	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/08/16 07:23	12/08/16 17:20	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		12/08/16 07:23	12/08/16 17:20	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/08/16 07:23	12/08/16 17:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110	12/08/16 07:23	12/08/16 17:20	1
Nitrobenzene-d5	77		33 - 139	12/08/16 07:23	12/08/16 17:20	1
2-Fluorobiphenyl	74		30 - 123	12/08/16 07:23	12/08/16 17:20	1
2,4,6-Tribromophenol	91		30 - 150	12/08/16 07:23	12/08/16 17:20	1
Phenol-d5	56		20 - 100	12/08/16 07:23	12/08/16 17:20	1
Terphenyl-d14	97		42 - 150	12/08/16 07:23	12/08/16 17:20	1

Lab Sample ID: LCS 500-364105/2-A
Matrix: Water
Analysis Batch: 364202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	0.0320	0.00993		mg/L		31	21 - 110
1,4-Dichlorobenzene	0.0320	0.0104		mg/L		32	22 - 110
1,2-Dichlorobenzene	0.0320	0.0110		mg/L		34	24 - 110
2,2'-oxybis[1-chloropropane]	0.0320	0.0195		mg/L		61	34 - 110
1,2,4-Trichlorobenzene	0.0320	0.0112		mg/L		35	25 - 110
2,4-Dimethylphenol	0.0320	0.0230		mg/L		72	42 - 115
2-Chlorophenol	0.0320	0.0248		mg/L		77	49 - 110
2,4-Dichlorophenol	0.0320	0.0257		mg/L		80	53 - 123
2-Methylphenol	0.0320	0.0248		mg/L		78	49 - 113
2,4,6-Trichlorophenol	0.0320	0.0278		mg/L		87	61 - 120
2,4,5-Trichlorophenol	0.0320	0.0288		mg/L		90	63 - 121
2-Methylnaphthalene	0.0320	0.0164		mg/L		51	32 - 110
2-Nitroaniline	0.0320	0.0295		mg/L		92	61 - 126
2-Chloronaphthalene	0.0320	0.0193		mg/L		60	38 - 110
2,6-Dinitrotoluene	0.0320	0.0316		mg/L		99	66 - 125
4-Chloro-3-methylphenol	0.0320	0.0278		mg/L		87	63 - 120
2-Nitrophenol	0.0320	0.0258		mg/L		81	51 - 120
4-Chloroaniline	0.0320	0.0263		mg/L		82	15 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364105/2-A

Matrix: Water

Analysis Batch: 364202

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	0.0320	0.0267		mg/L		83	42 - 134
2,4-Dinitrophenol	0.0640	0.0628		mg/L		98	20 - 140
2,4-Dinitrotoluene	0.0320	0.0325		mg/L		102	67 - 131
Acenaphthylene	0.0320	0.0231		mg/L		72	48 - 110
Acenaphthene	0.0320	0.0245		mg/L		77	41 - 112
4-Nitrophenol	0.0640	0.0438		mg/L		68	21 - 110
4-Nitroaniline	0.0320	0.0293		mg/L		92	40 - 142
4-Bromophenyl phenyl ether	0.0320	0.0281		mg/L		88	60 - 124
Bis(2-chloroethoxy)methane	0.0320	0.0254		mg/L		79	55 - 115
Bis(2-chloroethyl)ether	0.0320	0.0233		mg/L		73	46 - 110
4-Chlorophenyl phenyl ether	0.0320	0.0273		mg/L		85	55 - 115
4,6-Dinitro-2-methylphenol	0.0640	0.0630		mg/L		98	34 - 152
Anthracene	0.0320	0.0276		mg/L		86	65 - 118
Dibenzofuran	0.0320	0.0257		mg/L		80	54 - 111
Carbazole	0.0320	0.0295		mg/L		92	71 - 132
Diethyl phthalate	0.0320	0.0302		mg/L		94	64 - 126
Dimethyl phthalate	0.0320	0.0293		mg/L		91	66 - 120
Di-n-butyl phthalate	0.0320	0.0284		mg/L		89	67 - 125
Butyl benzyl phthalate	0.0320	0.0297		mg/L		93	63 - 127
Fluoranthene	0.0320	0.0290		mg/L		91	68 - 127
Benzo[a]anthracene	0.0320	0.0276		mg/L		86	69 - 121
Fluorene	0.0320	0.0270		mg/L		84	54 - 113
Chrysene	0.0320	0.0288		mg/L		90	70 - 126
Hexachlorobenzene	0.0320	0.0283		mg/L		88	63 - 127
3,3'-Dichlorobenzidine	0.0320	0.0281		mg/L		88	57 - 145
Hexachlorobutadiene	0.0320	0.00822		mg/L		26	20 - 110
Bis(2-ethylhexyl) phthalate	0.0320	0.0293		mg/L		92	60 - 132
Hexachlorocyclopentadiene	0.0320	0.00965	J	mg/L		30	10 - 110
Di-n-octyl phthalate	0.0320	0.0303		mg/L		95	63 - 133
Hexachloroethane	0.0320	0.00823		mg/L		26	20 - 110
Benzo[b]fluoranthene	0.0320	0.0309		mg/L		97	66 - 133
Benzo[k]fluoranthene	0.0320	0.0302		mg/L		94	64 - 134
Isophorone	0.0320	0.0244		mg/L		76	55 - 120
Benzo[a]pyrene	0.0320	0.0311		mg/L		97	69 - 130
Naphthalene	0.0320	0.0161		mg/L		50	32 - 110
Indeno[1,2,3-cd]pyrene	0.0320	0.0261		mg/L		82	52 - 150
Nitrobenzene	0.0320	0.0240		mg/L		75	49 - 116
Dibenz(a,h)anthracene	0.0320	0.0355		mg/L		111	59 - 145
Benzo[g,h,i]perylene	0.0320	0.0299		mg/L		93	47 - 145
N-Nitrosodi-n-propylamine	0.0320	0.0247		mg/L		77	52 - 122
N-Nitrosodiphenylamine	0.0320	0.0241		mg/L		75	63 - 117
Pentachlorophenol	0.0640	0.0532		mg/L		83	29 - 138
Phenanthrene	0.0320	0.0277		mg/L		86	63 - 121
Phenol	0.0320	0.0189		mg/L		59	33 - 100
Pyrene	0.0320	0.0283		mg/L		88	65 - 122
3 & 4 Methylphenol	0.0320	0.0243		mg/L		76	49 - 114

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364105/2-A
Matrix: Water
Analysis Batch: 364202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364105

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	75		30 - 110
Nitrobenzene-d5	78		33 - 139
2-Fluorobiphenyl	75		30 - 123
2,4,6-Tribromophenol	109		30 - 150
Phenol-d5	62		20 - 100
Terphenyl-d14	97		42 - 150

Lab Sample ID: LCSD 500-364105/3-A
Matrix: Water
Analysis Batch: 364202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 364105

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	0.0320	0.00965		mg/L		30	21 - 110	3	20
1,4-Dichlorobenzene	0.0320	0.0101		mg/L		32	22 - 110	3	20
1,2-Dichlorobenzene	0.0320	0.0110		mg/L		34	24 - 110	1	20
2,2'-oxybis[1-chloropropane]	0.0320	0.0191		mg/L		60	34 - 110	2	20
1,2,4-Trichlorobenzene	0.0320	0.0106		mg/L		33	25 - 110	5	20
2,4-Dimethylphenol	0.0320	0.0223		mg/L		70	42 - 115	3	20
2-Chlorophenol	0.0320	0.0236		mg/L		74	49 - 110	5	20
2,4-Dichlorophenol	0.0320	0.0240		mg/L		75	53 - 123	7	20
2-Methylphenol	0.0320	0.0233		mg/L		73	49 - 113	6	20
2,4,6-Trichlorophenol	0.0320	0.0260		mg/L		81	61 - 120	7	20
2,4,5-Trichlorophenol	0.0320	0.0268		mg/L		84	63 - 121	7	20
2-Methylnaphthalene	0.0320	0.0156		mg/L		49	32 - 110	5	20
2-Nitroaniline	0.0320	0.0280		mg/L		87	61 - 126	5	20
2-Chloronaphthalene	0.0320	0.0178		mg/L		56	38 - 110	8	20
2,6-Dinitrotoluene	0.0320	0.0300		mg/L		94	66 - 125	5	20
4-Chloro-3-methylphenol	0.0320	0.0268		mg/L		84	63 - 120	4	20
2-Nitrophenol	0.0320	0.0250		mg/L		78	51 - 120	3	20
4-Chloroaniline	0.0320	0.0272		mg/L		85	15 - 125	3	20
3-Nitroaniline	0.0320	0.0260		mg/L		81	42 - 134	3	20
2,4-Dinitrophenol	0.0640	0.0601		mg/L		94	20 - 140	4	20
2,4-Dinitrotoluene	0.0320	0.0308		mg/L		96	67 - 131	5	20
Acenaphthylene	0.0320	0.0214		mg/L		67	48 - 110	7	20
Acenaphthene	0.0320	0.0226		mg/L		71	41 - 112	8	20
4-Nitrophenol	0.0640	0.0408		mg/L		64	21 - 110	7	20
4-Nitroaniline	0.0320	0.0292		mg/L		91	40 - 142	0	20
4-Bromophenyl phenyl ether	0.0320	0.0266		mg/L		83	60 - 124	5	20
Bis(2-chloroethoxy)methane	0.0320	0.0249		mg/L		78	55 - 115	2	20
Bis(2-chloroethyl)ether	0.0320	0.0223		mg/L		70	46 - 110	4	20
4-Chlorophenyl phenyl ether	0.0320	0.0250		mg/L		78	55 - 115	9	20
4,6-Dinitro-2-methylphenol	0.0640	0.0628		mg/L		98	34 - 152	0	20
Anthracene	0.0320	0.0272		mg/L		85	65 - 118	2	20
Dibenzofuran	0.0320	0.0236		mg/L		74	54 - 111	9	20
Carbazole	0.0320	0.0291		mg/L		91	71 - 132	1	20
Diethyl phthalate	0.0320	0.0295		mg/L		92	64 - 126	2	20
Dimethyl phthalate	0.0320	0.0273		mg/L		85	66 - 120	7	20
Di-n-butyl phthalate	0.0320	0.0282		mg/L		88	67 - 125	0	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364105/3-A

Matrix: Water

Analysis Batch: 364202

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 364105

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	0.0320	0.0307		mg/L		96	63 - 127	4	20
Fluoranthene	0.0320	0.0287		mg/L		90	68 - 127	1	20
Benzo[a]anthracene	0.0320	0.0286		mg/L		89	69 - 121	3	20
Fluorene	0.0320	0.0248		mg/L		78	54 - 113	9	20
Chrysene	0.0320	0.0297		mg/L		93	70 - 126	3	20
Hexachlorobenzene	0.0320	0.0275		mg/L		86	63 - 127	3	20
3,3'-Dichlorobenzidine	0.0320	0.0332		mg/L		104	57 - 145	17	20
Hexachlorobutadiene	0.0320	0.00750		mg/L		23	20 - 110	9	20
Bis(2-ethylhexyl) phthalate	0.0320	0.0305		mg/L		95	60 - 132	4	20
Hexachlorocyclopentadiene	0.0320	0.00830	J	mg/L		26	10 - 110	15	20
Di-n-octyl phthalate	0.0320	0.0310		mg/L		97	63 - 133	2	20
Hexachloroethane	0.0320	0.00785		mg/L		25	20 - 110	5	20
Benzo[b]fluoranthene	0.0320	0.0326		mg/L		102	66 - 133	5	20
Benzo[k]fluoranthene	0.0320	0.0303		mg/L		95	64 - 134	0	20
Isophorone	0.0320	0.0234		mg/L		73	55 - 120	4	20
Benzo[a]pyrene	0.0320	0.0322		mg/L		101	69 - 130	4	20
Naphthalene	0.0320	0.0156		mg/L		49	32 - 110	3	20
Indeno[1,2,3-cd]pyrene	0.0320	0.0260		mg/L		81	52 - 150	0	20
Nitrobenzene	0.0320	0.0231		mg/L		72	49 - 116	4	20
Dibenz(a,h)anthracene	0.0320	0.0363		mg/L		113	59 - 145	2	20
Benzo[g,h,i]perylene	0.0320	0.0305		mg/L		95	47 - 145	2	20
N-Nitrosodi-n-propylamine	0.0320	0.0244		mg/L		76	52 - 122	1	20
N-Nitrosodiphenylamine	0.0320	0.0274		mg/L		86	63 - 117	13	20
Pentachlorophenol	0.0640	0.0520		mg/L		81	29 - 138	2	20
Phenanthrene	0.0320	0.0267		mg/L		83	63 - 121	4	20
Phenol	0.0320	0.0173		mg/L		54	33 - 100	9	20
Pyrene	0.0320	0.0287		mg/L		90	65 - 122	1	20
3 & 4 Methylphenol	0.0320	0.0231		mg/L		72	49 - 114	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorophenol	67		30 - 110
Nitrobenzene-d5	71		33 - 139
2-Fluorobiphenyl	69		30 - 123
2,4,6-Tribromophenol	101		30 - 150
Phenol-d5	56		20 - 100
Terphenyl-d14	95		42 - 150

Lab Sample ID: MB 500-365000/1-A

Matrix: Solid

Analysis Batch: 365128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365000

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/14/16 07:31	12/14/16 22:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365000/1-A
Matrix: Solid
Analysis Batch: 365128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365000

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/14/16 07:31	12/14/16 22:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365000/1-A
Matrix: Solid
Analysis Batch: 365128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365000

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Phenol	<0.17		0.17	0.074	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/14/16 07:31	12/14/16 22:22	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/14/16 07:31	12/14/16 22:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		40 - 130	12/14/16 07:31	12/14/16 22:22	1
Nitrobenzene-d5	99		33 - 124	12/14/16 07:31	12/14/16 22:22	1
2-Fluorobiphenyl	89		42 - 115	12/14/16 07:31	12/14/16 22:22	1
2,4,6-Tribromophenol	98		25 - 130	12/14/16 07:31	12/14/16 22:22	1
Phenol-d5	99		36 - 123	12/14/16 07:31	12/14/16 22:22	1
Terphenyl-d14	99		25 - 150	12/14/16 07:31	12/14/16 22:22	1

Lab Sample ID: LCS 500-365000/2-A
Matrix: Solid
Analysis Batch: 365128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		86	56 - 110
1,4-Dichlorobenzene	1.33	1.13		mg/Kg		85	57 - 110
1,2-Dichlorobenzene	1.33	1.16		mg/Kg		87	56 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.04		mg/Kg		78	22 - 133
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	60 - 116
2,4-Dimethylphenol	1.33	1.15		mg/Kg		86	50 - 120
2-Chlorophenol	1.33	1.20		mg/Kg		90	57 - 117
2,4-Dichlorophenol	1.33	1.25		mg/Kg		94	61 - 116
2-Methylphenol	1.33	1.13		mg/Kg		85	53 - 123
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	42 - 119
2-Methylnaphthalene	1.33	1.10		mg/Kg		83	55 - 120
2-Nitroaniline	1.33	1.26		mg/Kg		95	52 - 121
2-Chloronaphthalene	1.33	1.22		mg/Kg		91	57 - 112
2,6-Dinitrotoluene	1.33	1.31		mg/Kg		98	57 - 118
4-Chloro-3-methylphenol	1.33	1.11		mg/Kg		84	59 - 117
2-Nitrophenol	1.33	1.28		mg/Kg		96	58 - 121
4-Chloroaniline	1.33	1.08		mg/Kg		81	10 - 150
3-Nitroaniline	1.33	1.03		mg/Kg		77	20 - 144
2,4-Dinitrophenol	2.67	0.782		mg/Kg		29	10 - 110
2,4-Dinitrotoluene	1.33	1.31		mg/Kg		98	59 - 119
Acenaphthylene	1.33	1.19		mg/Kg		89	57 - 116
Acenaphthene	1.33	1.16		mg/Kg		87	52 - 113
4-Nitrophenol	2.67	2.35		mg/Kg		88	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365000/2-A
Matrix: Solid
Analysis Batch: 365128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1.33	1.60		mg/Kg		120	55 - 146
4-Bromophenyl phenyl ether	1.33	1.26		mg/Kg		94	61 - 124
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	59 - 116
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	53 - 116
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	61 - 111
4,6-Dinitro-2-methylphenol	2.67	1.29		mg/Kg		49	10 - 110
Anthracene	1.33	1.21		mg/Kg		91	57 - 118
Dibenzofuran	1.33	1.23		mg/Kg		92	59 - 110
Carbazole	1.33	1.43		mg/Kg		107	65 - 137
Diethyl phthalate	1.33	1.19		mg/Kg		89	58 - 117
Dimethyl phthalate	1.33	1.21		mg/Kg		91	60 - 112
Di-n-butyl phthalate	1.33	1.18		mg/Kg		89	61 - 123
Butyl benzyl phthalate	1.33	1.24		mg/Kg		93	61 - 115
Fluoranthene	1.33	1.22		mg/Kg		91	61 - 124
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	63 - 115
Fluorene	1.33	1.20		mg/Kg		90	56 - 115
Chrysene	1.33	1.23		mg/Kg		92	63 - 118
Hexachlorobenzene	1.33	1.23		mg/Kg		92	62 - 126
3,3'-Dichlorobenzidine	1.33	1.14		mg/Kg		86	40 - 110
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120
Bis(2-ethylhexyl) phthalate	1.33	1.23		mg/Kg		92	62 - 117
Hexachlorocyclopentadiene	1.33	0.986		mg/Kg		74	10 - 116
Di-n-octyl phthalate	1.33	1.31		mg/Kg		98	58 - 129
Hexachloroethane	1.33	1.21		mg/Kg		91	54 - 111
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	61 - 123
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		95	59 - 125
Isophorone	1.33	1.15		mg/Kg		87	54 - 120
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	64 - 122
Naphthalene	1.33	1.16		mg/Kg		87	58 - 116
Indeno[1,2,3-cd]pyrene	1.33	1.25		mg/Kg		94	50 - 149
Nitrobenzene	1.33	1.25		mg/Kg		94	56 - 121
Dibenz(a,h)anthracene	1.33	1.45		mg/Kg		109	61 - 134
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	55 - 134
N-Nitrosodi-n-propylamine	1.33	1.20		mg/Kg		90	56 - 119
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	62 - 117
Pentachlorophenol	2.67	2.07		mg/Kg		78	12 - 116
Phenanthrene	1.33	1.20		mg/Kg		90	58 - 125
Phenol	1.33	1.26		mg/Kg		94	55 - 118
Pyrene	1.33	1.19		mg/Kg		90	60 - 115
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	55 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	105		40 - 130
Nitrobenzene-d5	89		33 - 124
2-Fluorobiphenyl	88		42 - 115
2,4,6-Tribromophenol	103		25 - 130
Phenol-d5	98		36 - 123
Terphenyl-d14	96		25 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 365175

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 365000
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	<0.21		1.61	1.22		mg/Kg	☼	75	56 - 110
1,4-Dichlorobenzene	<0.21		1.61	1.17		mg/Kg	☼	72	57 - 110
1,2-Dichlorobenzene	<0.21		1.61	1.25		mg/Kg	☼	77	56 - 110
2,2'-oxybis[1-chloropropane]	<0.21		1.61	1.68		mg/Kg	☼	104	22 - 133
1,2,4-Trichlorobenzene	<0.21		1.61	1.24		mg/Kg	☼	77	60 - 116
2,4-Dimethylphenol	<0.42		1.61	1.50		mg/Kg	☼	93	50 - 120
2-Chlorophenol	<0.21		1.61	1.38		mg/Kg	☼	86	57 - 117
2,4-Dichlorophenol	<0.42		1.61	1.38		mg/Kg	☼	86	61 - 116
2-Methylphenol	<0.21		1.61	1.65		mg/Kg	☼	102	53 - 123
2,4,6-Trichlorophenol	<0.42	F2	1.61	1.41		mg/Kg	☼	87	50 - 120
2,4,5-Trichlorophenol	<0.42	F2	1.61	1.54		mg/Kg	☼	96	42 - 119
2-Methylnaphthalene	0.016	J	1.61	1.29		mg/Kg	☼	79	55 - 120
2-Nitroaniline	<0.21		1.61	1.48		mg/Kg	☼	92	52 - 121
2-Chloronaphthalene	<0.21		1.61	1.38		mg/Kg	☼	85	57 - 112
2,6-Dinitrotoluene	<0.21		1.61	1.41		mg/Kg	☼	88	57 - 118
4-Chloro-3-methylphenol	<0.42		1.61	1.09		mg/Kg	☼	67	59 - 117
2-Nitrophenol	<0.42		1.61	1.36		mg/Kg	☼	84	58 - 121
4-Chloroaniline	<0.85		1.61	1.13		mg/Kg	☼	70	10 - 150
3-Nitroaniline	<0.42		1.61	1.52		mg/Kg	☼	95	20 - 144
2,4-Dinitrophenol	<0.85	F1	3.22	<0.81	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.21		1.61	1.02		mg/Kg	☼	63	59 - 119
Acenaphthylene	0.049		1.61	1.43		mg/Kg	☼	86	57 - 116
Acenaphthene	0.013	J	1.61	1.44		mg/Kg	☼	88	52 - 113
4-Nitrophenol	<0.85		3.22	1.73		mg/Kg	☼	54	32 - 123
4-Nitroaniline	<0.42		1.61	1.75		mg/Kg	☼	109	55 - 146
4-Bromophenyl phenyl ether	<0.21		1.61	1.40		mg/Kg	☼	87	61 - 124
Bis(2-chloroethoxy)methane	<0.21		1.61	1.34		mg/Kg	☼	83	59 - 116
Bis(2-chloroethyl)ether	<0.21	F1	1.61	2.17	F1	mg/Kg	☼	135	53 - 116
4-Chlorophenyl phenyl ether	<0.21		1.61	1.41		mg/Kg	☼	87	61 - 111
4,6-Dinitro-2-methylphenol	<0.85		3.22	0.513	J	mg/Kg	☼	16	10 - 110
Anthracene	0.072		1.61	1.55		mg/Kg	☼	91	57 - 118
Dibenzofuran	<0.21		1.61	1.53		mg/Kg	☼	95	59 - 110
Carbazole	<0.21		1.61	1.94		mg/Kg	☼	120	65 - 137
Diethyl phthalate	<0.21		1.61	1.45		mg/Kg	☼	90	58 - 117
Dimethyl phthalate	<0.21		1.61	1.38		mg/Kg	☼	85	60 - 112
Di-n-butyl phthalate	<0.21		1.61	1.41		mg/Kg	☼	88	61 - 123
Butyl benzyl phthalate	<0.21		1.61	1.57		mg/Kg	☼	98	61 - 115
Fluoranthene	0.63		1.61	1.70		mg/Kg	☼	67	61 - 124
Benzo[a]anthracene	0.24		1.61	1.68		mg/Kg	☼	89	63 - 115
Fluorene	0.030	J	1.61	1.49		mg/Kg	☼	90	56 - 115
Chrysene	0.26		1.61	1.55		mg/Kg	☼	80	63 - 118
Hexachlorobenzene	<0.085		1.61	1.36		mg/Kg	☼	84	62 - 126
3,3'-Dichlorobenzidine	<0.21	F1	1.61	0.262	F1	mg/Kg	☼	16	40 - 110
Hexachlorobutadiene	<0.21		1.61	1.14		mg/Kg	☼	71	56 - 120
Bis(2-ethylhexyl) phthalate	<0.21		1.61	1.56		mg/Kg	☼	97	62 - 117
Hexachlorocyclopentadiene	<0.85	F1	1.61	<0.81	F1	mg/Kg	☼	0	10 - 116
Di-n-octyl phthalate	<0.21		1.61	1.58		mg/Kg	☼	98	58 - 129
Hexachloroethane	<0.21	F1	1.61	0.881		mg/Kg	☼	55	54 - 111
Benzo[b]fluoranthene	0.33		1.61	2.05		mg/Kg	☼	106	61 - 123
Benzo[k]fluoranthene	0.15		1.61	1.96		mg/Kg	☼	112	59 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121121-1 MS

Matrix: Solid

Analysis Batch: 365175

Client Sample ID: 1314V3-08-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 365000

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Isophorone	<0.21		1.61	1.37		mg/Kg	☼	85	54 - 120
Benzo[a]pyrene	0.24		1.61	1.63		mg/Kg	☼	87	64 - 122
Naphthalene	0.030	J	1.61	1.36		mg/Kg	☼	83	58 - 116
Indeno[1,2,3-cd]pyrene	0.094	F1	1.61	0.812	F1	mg/Kg	☼	45	50 - 149
Nitrobenzene	<0.042		1.61	1.37		mg/Kg	☼	85	56 - 121
Dibenz(a,h)anthracene	0.027	J F1	1.61	0.854	F1	mg/Kg	☼	51	61 - 134
Benzo[g,h,i]perylene	0.095	F1	1.61	0.686	F1	mg/Kg	☼	37	55 - 134
N-Nitrosodi-n-propylamine	<0.085		1.61	1.50		mg/Kg	☼	93	56 - 119
N-Nitrosodiphenylamine	<0.21		1.61	1.58		mg/Kg	☼	98	62 - 117
Pentachlorophenol	<0.85		3.22	2.30		mg/Kg	☼	71	12 - 116
Phenanthrene	0.38		1.61	1.65		mg/Kg	☼	78	58 - 125
Phenol	<0.21		1.61	1.51		mg/Kg	☼	94	55 - 118
Pyrene	0.48		1.61	1.77		mg/Kg	☼	80	60 - 115
3 & 4 Methylphenol	<0.21	F2	1.61	1.72		mg/Kg	☼	107	55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	17	X	40 - 130
Nitrobenzene-d5	93		33 - 124
2-Fluorobiphenyl	86		42 - 115
2,4,6-Tribromophenol	65		25 - 130
Phenol-d5	111		36 - 123
Terphenyl-d14	96		25 - 150

Lab Sample ID: 500-121121-1 MSD

Matrix: Solid

Analysis Batch: 365175

Client Sample ID: 1314V3-08-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 365000

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,3-Dichlorobenzene	<0.21		1.70	1.12		mg/Kg	☼	66	56 - 110	8	30
1,4-Dichlorobenzene	<0.21		1.70	1.14		mg/Kg	☼	67	57 - 110	2	30
1,2-Dichlorobenzene	<0.21		1.70	1.21		mg/Kg	☼	71	56 - 110	3	30
2,2'-oxybis[1-chloropropane]	<0.21		1.70	1.49		mg/Kg	☼	88	22 - 133	12	30
1,2,4-Trichlorobenzene	<0.21		1.70	1.19		mg/Kg	☼	70	60 - 116	5	30
2,4-Dimethylphenol	<0.42		1.70	1.46		mg/Kg	☼	86	50 - 120	3	30
2-Chlorophenol	<0.21		1.70	1.32		mg/Kg	☼	78	57 - 117	5	30
2,4-Dichlorophenol	<0.42		1.70	1.38		mg/Kg	☼	81	61 - 116	0	30
2-Methylphenol	<0.21		1.70	1.58		mg/Kg	☼	93	53 - 123	4	30
2,4,6-Trichlorophenol	<0.42	F2	1.70	1.37		mg/Kg	☼	80	50 - 120	3	30
2,4,5-Trichlorophenol	<0.42	F2	1.70	1.56		mg/Kg	☼	92	42 - 119	1	30
2-Methylnaphthalene	0.016	J	1.70	1.24		mg/Kg	☼	72	55 - 120	4	30
2-Nitroaniline	<0.21		1.70	1.58		mg/Kg	☼	93	52 - 121	6	30
2-Chloronaphthalene	<0.21		1.70	1.33		mg/Kg	☼	79	57 - 112	3	30
2,6-Dinitrotoluene	<0.21		1.70	1.40		mg/Kg	☼	82	57 - 118	1	30
4-Chloro-3-methylphenol	<0.42		1.70	1.44		mg/Kg	☼	85	59 - 117	28	30
2-Nitrophenol	<0.42		1.70	1.29		mg/Kg	☼	76	58 - 121	5	30
4-Chloroaniline	<0.85		1.70	1.18		mg/Kg	☼	69	10 - 150	4	30
3-Nitroaniline	<0.42		1.70	1.84		mg/Kg	☼	108	20 - 144	19	30
2,4-Dinitrophenol	<0.85	F1	3.40	<0.85	F1	mg/Kg	☼	0	10 - 110	NC	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121121-1 MSD

Matrix: Solid

Analysis Batch: 365175

Client Sample ID: 1314V3-08-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 365000

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,4-Dinitrotoluene	<0.21		1.70	1.38		mg/Kg	☼	81	59 - 119	30	30
Acenaphthylene	0.049		1.70	1.34		mg/Kg	☼	76	57 - 116	6	30
Acenaphthene	0.013	J	1.70	1.39		mg/Kg	☼	81	52 - 113	3	30
4-Nitrophenol	<0.85		3.40	1.38		mg/Kg	☼	41	32 - 123	22	30
4-Nitroaniline	<0.42		1.70	2.17		mg/Kg	☼	128	55 - 146	22	30
4-Bromophenyl phenyl ether	<0.21		1.70	1.37		mg/Kg	☼	81	61 - 124	2	30
Bis(2-chloroethoxy)methane	<0.21		1.70	1.34		mg/Kg	☼	79	59 - 116	0	30
Bis(2-chloroethyl)ether	<0.21	F1	1.70	1.91		mg/Kg	☼	113	53 - 116	13	30
4-Chlorophenyl phenyl ether	<0.21		1.70	1.40		mg/Kg	☼	83	61 - 111	0	30
4,6-Dinitro-2-methylphenol	<0.85		3.40	0.528	J	mg/Kg	☼	16	10 - 110	3	30
Anthracene	0.072		1.70	1.48		mg/Kg	☼	83	57 - 118	4	30
Dibenzofuran	<0.21		1.70	1.42		mg/Kg	☼	84	59 - 110	7	30
Carbazole	<0.21		1.70	2.10		mg/Kg	☼	123	65 - 137	8	30
Diethyl phthalate	<0.21		1.70	1.38		mg/Kg	☼	81	58 - 117	4	30
Dimethyl phthalate	<0.21		1.70	1.37		mg/Kg	☼	81	60 - 112	1	30
Di-n-butyl phthalate	<0.21		1.70	1.41		mg/Kg	☼	83	61 - 123	0	30
Butyl benzyl phthalate	<0.21		1.70	1.57		mg/Kg	☼	92	61 - 115	0	30
Fluoranthene	0.63		1.70	1.80		mg/Kg	☼	69	61 - 124	6	30
Benzo[a]anthracene	0.24		1.70	1.74		mg/Kg	☼	88	63 - 115	4	30
Fluorene	0.030	J	1.70	1.43		mg/Kg	☼	82	56 - 115	4	30
Chrysene	0.26		1.70	1.56		mg/Kg	☼	77	63 - 118	1	30
Hexachlorobenzene	<0.085		1.70	1.34		mg/Kg	☼	79	62 - 126	1	30
3,3'-Dichlorobenzidine	<0.21	F1	1.70	0.237	F1	mg/Kg	☼	14	40 - 110	10	30
Hexachlorobutadiene	<0.21		1.70	1.08		mg/Kg	☼	64	56 - 120	5	30
Bis(2-ethylhexyl) phthalate	<0.21		1.70	1.60		mg/Kg	☼	94	62 - 117	2	30
Hexachlorocyclopentadiene	<0.85	F1	1.70	<0.85	F1	mg/Kg	☼	0	10 - 116	NC	30
Di-n-octyl phthalate	<0.21		1.70	1.62		mg/Kg	☼	96	58 - 129	2	30
Hexachloroethane	<0.21	F1	1.70	0.785	F1	mg/Kg	☼	46	54 - 111	12	30
Benzo[b]fluoranthene	0.33		1.70	2.17		mg/Kg	☼	108	61 - 123	6	30
Benzo[k]fluoranthene	0.15		1.70	2.00		mg/Kg	☼	109	59 - 125	2	30
Isophorone	<0.21		1.70	1.33		mg/Kg	☼	78	54 - 120	4	30
Benzo[a]pyrene	0.24		1.70	1.71		mg/Kg	☼	87	64 - 122	4	30
Naphthalene	0.030	J	1.70	1.28		mg/Kg	☼	74	58 - 116	6	30
Indeno[1,2,3-cd]pyrene	0.094	F1	1.70	0.805	F1	mg/Kg	☼	42	50 - 149	1	30
Nitrobenzene	<0.042		1.70	1.30		mg/Kg	☼	77	56 - 121	5	30
Dibenz(a,h)anthracene	0.027	J F1	1.70	0.844	F1	mg/Kg	☼	48	61 - 134	1	30
Benzo[g,h,i]perylene	0.095	F1	1.70	0.661	F1	mg/Kg	☼	33	55 - 134	4	30
N-Nitrosodi-n-propylamine	<0.085		1.70	1.45		mg/Kg	☼	85	56 - 119	4	30
N-Nitrosodiphenylamine	<0.21		1.70	1.56		mg/Kg	☼	92	62 - 117	1	30
Pentachlorophenol	<0.85		3.40	2.60		mg/Kg	☼	77	12 - 116	12	30
Phenanthrene	0.38		1.70	1.62		mg/Kg	☼	73	58 - 125	1	30
Phenol	<0.21		1.70	1.48		mg/Kg	☼	87	55 - 118	2	30
Pyrene	0.48		1.70	1.80		mg/Kg	☼	77	60 - 115	1	30
3 & 4 Methylphenol	<0.21	F2	1.70	1.19	F2	mg/Kg	☼	70	55 - 124	36	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	91		40 - 130
Nitrobenzene-d5	83		33 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121121-1 MSD
Matrix: Solid
Analysis Batch: 365175

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 365000

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	78		42 - 115
2,4,6-Tribromophenol	72		25 - 130
Phenol-d5	101		36 - 123
Terphenyl-d14	90		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-364361/1-A
Matrix: Solid
Analysis Batch: 364788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Barium	<1.0		1.0	0.18	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Boron	<5.0		5.0	0.70	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Calcium	<20		20	6.4	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Chromium	0.907	J	1.0	0.17	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Copper	<1.0		1.0	0.22	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Iron	9.06	J	20	7.7	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Lead	<0.50		0.50	0.25	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Magnesium	<10		10	4.1	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Potassium	<50		50	8.2	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Silver	<0.50		0.50	0.12	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Sodium	<100		100	13	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/09/16 09:25	12/12/16 20:11	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/09/16 09:25	12/12/16 20:11	1

Lab Sample ID: LCS 500-364361/2-A
Matrix: Solid
Analysis Batch: 364788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.1		mg/Kg		94	80 - 120
Arsenic	10.0	9.85		mg/Kg		98	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.77		mg/Kg		95	80 - 120
Boron	100	87.4		mg/Kg		87	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Calcium	1000	997		mg/Kg		100	80 - 120
Chromium	20.0	20.7		mg/Kg		104	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-364361/2-A
Matrix: Solid
Analysis Batch: 364788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	112		mg/Kg		112	80 - 120
Lead	10.0	9.73		mg/Kg		97	80 - 120
Magnesium	1000	933		mg/Kg		93	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Potassium	1000	961		mg/Kg		96	80 - 120
Selenium	10.0	8.68		mg/Kg		87	80 - 120
Silver	5.00	4.71		mg/Kg		94	80 - 120
Sodium	1000	969		mg/Kg		97	80 - 120
Thallium	10.0	9.28		mg/Kg		93	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	49.0		mg/Kg		98	80 - 120

Lab Sample ID: MB 500-364512/1-A
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Barium	<1.0		1.0	0.18	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Boron	<5.0		5.0	0.70	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Calcium	10.1	J	20	6.4	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Chromium	0.487	J	1.0	0.17	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Copper	<1.0		1.0	0.22	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Iron	<20		20	7.7	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Lead	<0.50		0.50	0.25	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Magnesium	4.18	J	10	4.1	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Potassium	<50		50	8.2	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Silver	<0.50		0.50	0.12	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Sodium	<100		100	13	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/10/16 10:01	12/12/16 01:32	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/10/16 10:01	12/12/16 01:32	1

Lab Sample ID: LCS 500-364512/2-A
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-364512/2-A
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.92		mg/Kg		89	80 - 120
Barium	200	185		mg/Kg		93	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Boron	100	86.5		mg/Kg		87	80 - 120
Cadmium	5.00	4.67		mg/Kg		93	80 - 120
Calcium	1000	983		mg/Kg		98	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	46.6		mg/Kg		93	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.71		mg/Kg		97	80 - 120
Magnesium	1000	928		mg/Kg		93	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Potassium	1000	960		mg/Kg		96	80 - 120
Selenium	10.0	8.47		mg/Kg		85	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Sodium	1000	934		mg/Kg		93	80 - 120
Thallium	10.0	9.19		mg/Kg		92	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.90	J F1	30.5	8.67	F1	mg/Kg	☼	25	75 - 125
Arsenic	2.8		6.11	10.1		mg/Kg	☼	119	75 - 125
Barium	51		122	178		mg/Kg	☼	104	75 - 125
Beryllium	0.60		3.05	3.51		mg/Kg	☼	95	75 - 125
Boron	13		61.1	70.1		mg/Kg	☼	93	75 - 125
Cadmium	0.27		3.05	2.98		mg/Kg	☼	89	75 - 125
Calcium	37000	B	611	30100	4	mg/Kg	☼	-1068	75 - 125
Chromium	10	B	12.2	22.9		mg/Kg	☼	104	75 - 125
Cobalt	4.6		30.5	30.5		mg/Kg	☼	85	75 - 125
Copper	15		15.3	32.3		mg/Kg	☼	114	75 - 125
Iron	13000	F2	61.1	21400	4	mg/Kg	☼	13642	75 - 125
Lead	38		6.11	61.8	4	mg/Kg	☼	390	75 - 125
Magnesium	1400	B F1	611	2190		mg/Kg	☼	121	75 - 125
Manganese	230		30.5	261	4	mg/Kg	☼	99	75 - 125
Nickel	11		30.5	39.6		mg/Kg	☼	93	75 - 125
Potassium	1200	F1	611	2150	F1	mg/Kg	☼	164	75 - 125
Selenium	<0.60		6.11	5.06		mg/Kg	☼	83	75 - 125
Silver	<0.30		3.05	2.76		mg/Kg	☼	90	75 - 125
Sodium	170		611	896		mg/Kg	☼	119	75 - 125
Thallium	0.66		6.11	6.08		mg/Kg	☼	89	75 - 125
Vanadium	18		30.5	50.5		mg/Kg	☼	105	75 - 125

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	100	F1 F2	30.5	200	F1	mg/Kg	☼	319	75 - 125

Lab Sample ID: 500-121121-1 MSD
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.90	J F1	30.7	8.30	F1	mg/Kg	☼	24	75 - 125	4	20
Arsenic	2.8		6.14	8.52		mg/Kg	☼	93	75 - 125	17	20
Barium	51		123	166		mg/Kg	☼	94	75 - 125	7	20
Beryllium	0.60		3.07	3.55		mg/Kg	☼	96	75 - 125	1	20
Boron	13		61.4	70.1		mg/Kg	☼	93	75 - 125	0	20
Cadmium	0.27		3.07	2.73		mg/Kg	☼	80	75 - 125	9	20
Calcium	37000	B	614	36500	4	mg/Kg	☼	-22	75 - 125	19	20
Chromium	10	B	12.3	23.4		mg/Kg	☼	108	75 - 125	2	20
Cobalt	4.6		30.7	28.9		mg/Kg	☼	79	75 - 125	5	20
Copper	15		15.4	29.8		mg/Kg	☼	97	75 - 125	8	20
Iron	13000	F2	61.4	15200	4 F2	mg/Kg	☼	3496	75 - 125	34	20
Lead	38		6.14	55.4	4	mg/Kg	☼	285	75 - 125	11	20
Magnesium	1400	B F1	614	2280	F1	mg/Kg	☼	136	75 - 125	4	20
Manganese	230		30.7	263	4	mg/Kg	☼	104	75 - 125	1	20
Nickel	11		30.7	36.5		mg/Kg	☼	83	75 - 125	8	20
Potassium	1200	F1	614	2300	F1	mg/Kg	☼	186	75 - 125	6	20
Selenium	<0.60		6.14	4.81		mg/Kg	☼	78	75 - 125	5	20
Silver	<0.30		3.07	2.72		mg/Kg	☼	88	75 - 125	2	20
Sodium	170		614	886		mg/Kg	☼	116	75 - 125	1	20
Thallium	0.66		6.14	5.64		mg/Kg	☼	81	75 - 125	7	20
Vanadium	18		30.7	49.6		mg/Kg	☼	102	75 - 125	2	20
Zinc	100	F1 F2	30.7	150	F1 F2	mg/Kg	☼	155	75 - 125	29	20

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.90	J F1	0.653	J F5	mg/Kg	☼	32	20
Arsenic	2.8		4.44	F3	mg/Kg	☼	46	20
Barium	51		61.1		mg/Kg	☼	19	20
Beryllium	0.60		1.25	F3	mg/Kg	☼	70	20
Boron	13		35.5	F3	mg/Kg	☼	93	20
Cadmium	0.27		0.736	F3	mg/Kg	☼	92	20
Calcium	37000	B	29300	F3	mg/Kg	☼	22	20
Chromium	10	B	10.2		mg/Kg	☼	0.1	20
Cobalt	4.6		5.73	F3	mg/Kg	☼	21	20
Copper	15		439	F3	mg/Kg	☼	187	20
Iron	13000	F2	23200	F3	mg/Kg	☼	56	20
Lead	38		59.5	F3	mg/Kg	☼	44	20
Magnesium	1400	B F1	1320		mg/Kg	☼	9	20
Manganese	230		234		mg/Kg	☼	1	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 364597

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364512

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Nickel	11		15.6	F3	mg/Kg	☼	34	20
Potassium	1200	F1	1150		mg/Kg	☼	0.2	20
Selenium	<0.60		0.497	J	mg/Kg	☼	NC	20
Silver	<0.30		0.123	J	mg/Kg	☼	NC	20
Sodium	170		357	F3	mg/Kg	☼	70	20
Thallium	0.66		0.922	F5	mg/Kg	☼	33	20
Vanadium	18		20.3		mg/Kg	☼	11	20
Zinc	100	F1 F2	349	F3	mg/Kg	☼	109	20

Lab Sample ID: LCS 500-364619/2-A
Matrix: Solid
Analysis Batch: 364856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364619

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cadmium	0.0500	0.0549		mg/L		110	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Manganese	0.500	0.580		mg/L		116	80 - 120

Lab Sample ID: LCS 500-364799/2-A
Matrix: Solid
Analysis Batch: 365009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364799

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Boron	1.00	0.928		mg/L		93	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.498		mg/L		100	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.499		mg/L		100	80 - 120
Selenium	0.100	0.0937		mg/L		94	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Zinc	0.500	0.487	J	mg/L		97	80 - 120

Lab Sample ID: LB 500-364526/1-C
Matrix: Solid
Analysis Batch: 365009

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364799

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/13/16 08:02	12/14/16 02:44	1
Boron	0.0700	J	0.50	0.050	mg/L		12/13/16 08:02	12/14/16 02:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/13/16 08:02	12/14/16 02:44	1
Chromium	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:44	1
Cobalt	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:44	1
Iron	<0.40		0.40	0.20	mg/L		12/13/16 08:02	12/14/16 02:44	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-364526/1-C
Matrix: Solid
Analysis Batch: 365009

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364799

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/13/16 08:02	12/14/16 02:44	1
Manganese	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:44	1
Nickel	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:44	1
Selenium	<0.050		0.050	0.020	mg/L		12/13/16 08:02	12/14/16 02:44	1
Silver	<0.025		0.025	0.010	mg/L		12/13/16 08:02	12/14/16 02:44	1
Zinc	<0.50		0.50	0.020	mg/L		12/13/16 08:02	12/14/16 02:44	1

Lab Sample ID: 500-121121-10 MS
Matrix: Solid
Analysis Batch: 365009

Client Sample ID: 1314V3-01-B04 (6-12)
Prep Type: TCLP
Prep Batch: 364799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.52		0.500	0.991		mg/L		94	50 - 150
Beryllium	<0.0040		0.0500	0.0495		mg/L		99	50 - 150
Boron	0.13	J B	1.00	1.01		mg/L		88	50 - 150
Cadmium	0.0024	J	0.0500	0.0519		mg/L		99	50 - 150
Chromium	<0.025		0.200	0.193		mg/L		97	50 - 150
Cobalt	0.036		0.500	0.542		mg/L		101	50 - 150
Iron	<0.40		1.00	1.14		mg/L		114	50 - 150
Lead	0.019		0.100	0.113		mg/L		95	50 - 150
Manganese	4.3		0.500	4.66	4	mg/L		67	50 - 150
Nickel	0.049		0.500	0.545		mg/L		99	50 - 150
Selenium	<0.050		0.100	0.106		mg/L		106	50 - 150
Silver	<0.025		0.0500	0.0511		mg/L		102	50 - 150
Zinc	0.26	J	0.500	0.778		mg/L		103	50 - 150

Lab Sample ID: 500-121121-10 DU
Matrix: Solid
Analysis Batch: 365009

Client Sample ID: 1314V3-01-B04 (6-12)
Prep Type: TCLP
Prep Batch: 364799

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.52		0.526		mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.13	J B	0.126	J	mg/L		4	20
Cadmium	0.0024	J	0.00245	J	mg/L		1	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.036		0.0366		mg/L		2	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	0.019		0.0193		mg/L		4	20
Manganese	4.3		4.38		mg/L		1	20
Nickel	0.049		0.0505		mg/L		3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.26	J	0.272	J	mg/L		4	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-364517/1-B
Matrix: Solid
Analysis Batch: 364856

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 364619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:10	12/14/16 05:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:10	12/14/16 05:30	1
Manganese	<0.025		0.025	0.010	mg/L		12/12/16 09:10	12/14/16 05:30	1

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 364856

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 364619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	0.038		0.100	0.139		mg/L		101	50 - 150
Manganese	0.12		0.500	0.656		mg/L		108	50 - 150

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 364856

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 364619

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	0.038		0.0380		mg/L		0.1	20
Manganese	0.12		0.117		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-364619/2-A
Matrix: Solid
Analysis Batch: 365122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.505		mg/L		101	80 - 120

Lab Sample ID: LCS 500-364799/2-A
Matrix: Solid
Analysis Batch: 365046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.471		mg/L		94	80 - 120
Thallium	0.100	0.104	^	mg/L		104	80 - 120

Lab Sample ID: MB 500-364135/1-A
Matrix: Water
Analysis Batch: 364376

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00044	mg/L		12/08/16 08:28	12/08/16 16:13	1
Barium	<0.0025		0.0025	0.00084	mg/L		12/08/16 08:28	12/08/16 16:13	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		12/08/16 08:28	12/08/16 16:13	1
Calcium	<0.20		0.20	0.11	mg/L		12/08/16 08:28	12/08/16 16:13	1
Chromium	<0.0050		0.0050	0.00061	mg/L		12/08/16 08:28	12/08/16 16:13	1
Cobalt	<0.0010		0.0010	0.00019	mg/L		12/08/16 08:28	12/08/16 16:13	1
Copper	<0.0020		0.0020	0.00096	mg/L		12/08/16 08:28	12/08/16 16:13	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-364135/1-A
Matrix: Water
Analysis Batch: 364376

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.10		0.10	0.026	mg/L		12/08/16 08:28	12/08/16 16:13	1
Lead	<0.00050		0.00050	0.00014	mg/L		12/08/16 08:28	12/08/16 16:13	1
Magnesium	<0.20		0.20	0.083	mg/L		12/08/16 08:28	12/08/16 16:13	1
Manganese	<0.0025		0.0025	0.00099	mg/L		12/08/16 08:28	12/08/16 16:13	1
Nickel	<0.0020		0.0020	0.00053	mg/L		12/08/16 08:28	12/08/16 16:13	1
Potassium	<0.50		0.50	0.19	mg/L		12/08/16 08:28	12/08/16 16:13	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/08/16 08:28	12/08/16 16:13	1
Sodium	<0.20		0.20	0.088	mg/L		12/08/16 08:28	12/08/16 16:13	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/08/16 08:28	12/08/16 16:13	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		12/08/16 08:28	12/08/16 16:13	1
Zinc	<0.020		0.020	0.0046	mg/L		12/08/16 08:28	12/08/16 16:13	1

Lab Sample ID: MB 500-364135/1-A
Matrix: Water
Analysis Batch: 364442

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.025	mg/L		12/08/16 08:28	12/09/16 12:10	1
Cadmium	<0.00050		0.00050	0.00019	mg/L		12/08/16 08:28	12/09/16 12:10	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/08/16 08:28	12/09/16 12:10	1

Lab Sample ID: LCS 500-364135/2-A
Matrix: Water
Analysis Batch: 364376

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0937		mg/L		94	80 - 120
Barium	0.500	0.477		mg/L		95	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Calcium	10.0	11.2		mg/L		112	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Copper	0.250	0.239		mg/L		96	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Magnesium	10.0	9.84		mg/L		98	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Nickel	0.500	0.514		mg/L		103	80 - 120
Potassium	10.0	9.95		mg/L		100	80 - 120
Silver	0.0500	0.0486		mg/L		97	80 - 120
Sodium	10.0	9.87		mg/L		99	80 - 120
Thallium	0.100	0.0956		mg/L		96	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120
Zinc	0.500	0.474		mg/L		95	80 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-364135/2-A
Matrix: Water
Analysis Batch: 364442

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	0.948		mg/L		95	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Selenium	0.100	0.0965		mg/L		96	80 - 120

Lab Sample ID: LB 500-364526/1-C
Matrix: Solid
Analysis Batch: 365046

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364799

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/13/16 08:02	12/13/16 18:42	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/13/16 08:02	12/13/16 18:42	1

Lab Sample ID: 500-121121-10 MS
Matrix: Solid
Analysis Batch: 365046

Client Sample ID: 1314V3-01-B04 (6-12)
Prep Type: TCLP
Prep Batch: 364799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.441		mg/L		88	50 - 150
Thallium	<0.0020	^	0.100	0.108	^	mg/L		108	50 - 150

Lab Sample ID: 500-121121-10 DU
Matrix: Solid
Analysis Batch: 365046

Client Sample ID: 1314V3-01-B04 (6-12)
Prep Type: TCLP
Prep Batch: 364799

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020	^	<0.0020	^	mg/L		NC	20

Lab Sample ID: LB 500-364517/1-B
Matrix: Solid
Analysis Batch: 365122

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 364619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:10	12/14/16 13:13	1

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 365122

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 364619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.473		mg/L		95	50 - 150

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 365122

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 364619

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 7470A - Mercury

Lab Sample ID: MB 500-364699/12-A
Matrix: Water
Analysis Batch: 365078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/12/16 14:00	12/14/16 09:43	1

Lab Sample ID: LCS 500-364699/13-A
Matrix: Water
Analysis Batch: 365078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-364662/12-A
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:36	1

Lab Sample ID: LCS 500-364662/13-A
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

Lab Sample ID: LB 500-364526/1-B
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364662

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 12:39	1

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: TCLP
Prep Batch: 364662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000904		mg/L		90	50 - 150

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: TCLP
Prep Batch: 364662

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-364425/12-A
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/09/16 15:45	12/12/16 10:37	1

Lab Sample ID: LCS 500-364425/13-A
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.149		mg/Kg		89	80 - 120

Lab Sample ID: 500-121121-1 MS
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.22		0.101	0.321		mg/Kg	☼	100	75 - 125

Lab Sample ID: 500-121121-1 MSD
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.22		0.105	0.340		mg/Kg	☼	114	75 - 125	5	20

Lab Sample ID: 500-121121-1 DU
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: 1314V3-08-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 364425

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.22		0.193		mg/Kg	☼	13	20

Method: 9045D - pH

Lab Sample ID: 500-121121-17 DU
Matrix: Solid
Analysis Batch: 364502

Client Sample ID: 1314V3-01-B07 (6-12)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.6		7.5		SU		0.4	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 05:44	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 02:53	PJ1	TAL CHI
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6020A		1	365122	12/14/16 13:20	FXG	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 18:50	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:20 (End) 12/09/16 20:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-08-B01 (0-6)

Lab Sample ID: 500-121121-1

Date Collected: 12/06/16 08:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/08/16 22:08	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 05:26	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 01:46	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 13:24	MJD	TAL CHI

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 06:27	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	365009	12/14/16 02:57	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 18:54	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:45	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:23 (End) 12/09/16 20:27	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-08-B01 (6-12)

Lab Sample ID: 500-121121-2

Date Collected: 12/06/16 08:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/08/16 22:34	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 00:53	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 02:19	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 10:55	MJD	TAL CHI

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 06:33	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:02	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 18:58	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:46	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	364502	12/09/16 20:27 (Start) 12/09/16 20:30 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B01 (0-6)

Lab Sample ID: 500-121121-3

Date Collected: 12/06/16 08:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/08/16 23:00	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 05:53	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 02:26	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 10:57	MJD	TAL CHI

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 06:40	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:07	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:02	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	12/09/16 20:30 (Start) 12/09/16 20:34 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B01 (6-11)

Lab Sample ID: 500-121121-4

Date Collected: 12/06/16 09:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/08/16 23:26	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 06:20	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 02:49	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 10:59	MJD	TAL CHI

Client Sample ID: 1314V3-01-G01

Lab Sample ID: 500-121121-5

Date Collected: 12/06/16 09:15

Matrix: Water

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	364795	12/13/16 11:27	TCT	TAL CHI
Total/NA	Prep	3510C			364105	12/08/16 07:23	JJH	TAL CHI
Total/NA	Analysis	8270D		1	364202	12/09/16 01:05	AJD	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	364376	12/08/16 16:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		5	364442	12/09/16 12:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	364442	12/09/16 14:04	FXG	TAL CHI
Total/NA	Prep	7470A			364699	12/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	365078	12/14/16 09:46	MJD	TAL CHI

Client Sample ID: 1314V3-00-TB01

Lab Sample ID: 500-121121-6

Date Collected: 12/06/16 00:00

Matrix: Water

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	364795	12/13/16 11:54	TCT	TAL CHI

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 06:47	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	365009	12/14/16 03:12	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:14	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:34 (End) 12/09/16 20:37	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B02 (0-8)

Lab Sample ID: 500-121121-7

Date Collected: 12/06/16 10:55

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/08/16 23:52	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 01:21	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 02:56	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:02	MJD	TAL CHI

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 06:54	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:17	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:18	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:54	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	364502	12/09/16 20:37 (Start) 12/09/16 20:41 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B03 (0-8)

Lab Sample ID: 500-121121-8

Date Collected: 12/06/16 11:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/09/16 00:18	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 01:48	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:02	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:04	MJD	TAL CHI

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 07:01	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:30	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:23	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	12/09/16 20:41 (Start) 12/09/16 20:44 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (0-6)

Lab Sample ID: 500-121121-9

Date Collected: 12/06/16 12:10

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364189	12/09/16 00:44	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 06:47	GES	TAL CHI
Total/NA	Prep	3541	DL		365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D	DL	5	365424	12/16/16 15:27	AJD	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:09	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:07	MJD	TAL CHI

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 07:07	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:35	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:27	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:44 (End) 12/09/16 20:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 17:36	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 02:15	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:16	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B04 (6-12)

Lab Sample ID: 500-121121-10

Date Collected: 12/06/16 12:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:09	MJD	TAL CHI

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 07:14	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:53	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:43	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 12:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:48 (End) 12/09/16 20:51	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B05 (0-6)

Lab Sample ID: 500-121121-11

Date Collected: 12/06/16 12:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 18:02	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 07:15	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:23	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:11	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 07:24	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 03:58	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 19:47	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:51 (End) 12/09/16 20:55	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B05 (6-12)

Lab Sample ID: 500-121121-12

Date Collected: 12/06/16 12:45

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 18:28	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 07:42	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:29	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:13	MJD	TAL CHI

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 07:54	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:03	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	365046	12/13/16 19:51	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:55 (End) 12/09/16 20:58	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B06 (0-8)

Lab Sample ID: 500-121121-13

Date Collected: 12/06/16 15:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 18:54	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 02:43	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:36	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:16	MJD	TAL CHI

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:08	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:07	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 20:58 (End) 12/09/16 21:02	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B06 (8-15)

Lab Sample ID: 500-121121-14

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 19:20	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 03:10	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:43	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:22	MJD	TAL CHI

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:12	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:11	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:02 (End) 12/09/16 21:05	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B06 (8-15)D

Lab Sample ID: 500-121121-15

Date Collected: 12/06/16 15:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 19:47	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 03:37	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 03:50	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:25	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 08:15	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:25	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:15	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:05 (End) 12/09/16 21:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B07 (0-6)

Lab Sample ID: 500-121121-16

Date Collected: 12/06/16 15:35

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 20:13	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 08:09	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 04:12	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:27	MJD	TAL CHI

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:30	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:19	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	364926	12/13/16 13:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:09 (End) 12/09/16 21:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

Client Sample ID: 1314V3-01-B07 (6-12)

Lab Sample ID: 500-121121-17

Date Collected: 12/06/16 15:40

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 20:39	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 04:04	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 04:19	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:29	MJD	TAL CHI

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 08:28	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:35	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:23	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:12	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:16 (End) 12/09/16 21:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364234	12/08/16 15:33	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-01-B08 (0-4)

Lab Sample ID: 500-121121-18

Date Collected: 12/06/16 16:15

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 21:05	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 04:31	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 04:26	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:31	MJD	TAL CHI

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:40	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:27	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:19 (End) 12/09/16 21:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364248	12/08/16 16:46	LWN	TAL CHI

Client Sample ID: 1314V3-01-B08 (4-9)

Lab Sample ID: 500-121121-19

Date Collected: 12/06/16 16:20

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 21:31	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 04:59	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 04:33	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:34	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 08:42	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:44	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6020A		1	365046	12/13/16 20:32	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502		SMO	TAL CHI
					(Start)	12/09/16 21:23		
					(End)	12/09/16 21:26		
Total/NA	Analysis	Moisture		1	364248	12/08/16 16:46	LWN	TAL CHI

Client Sample ID: 1314V3-04-B01 (0-6)

Lab Sample ID: 500-121121-20

Date Collected: 12/06/16 10:00

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 21:57	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365175	12/15/16 08:36	GES	TAL CHI
Total/NA	Prep	3050B			364512	12/10/16 10:01	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364597	12/12/16 04:39	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:36	MJD	TAL CHI

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364517	12/10/16 10:54	RMP	TAL CHI
SPLP East	Prep	3010A			364619	12/12/16 09:10	JEF	TAL CHI
SPLP East	Analysis	6010B		1	364856	12/14/16 08:48	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI
TCLP	Analysis	6010B		1	365009	12/14/16 04:49	PJ1	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	3010A			364799	12/13/16 08:02	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	365046	12/13/16 20:36	PFK	TAL CHI
TCLP	Leach	1311			364526	12/10/16 12:54	RMP	TAL CHI
TCLP	Prep	7470A			364662	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 13:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364502	(Start) 12/09/16 21:26 (End) 12/09/16 21:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364248	12/08/16 16:46	LWN	TAL CHI

Client Sample ID: 1314V3-04-B01 (6-11)

Lab Sample ID: 500-121121-21

Date Collected: 12/06/16 10:05

Matrix: Solid

Date Received: 12/07/16 13:30

Percent Solids: 55.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364101	12/07/16 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364387	12/09/16 22:23	EMA	TAL CHI
Total/NA	Prep	3541			365000	12/14/16 07:31	STW	TAL CHI
Total/NA	Analysis	8270D		1	365424	12/16/16 19:06	AJD	TAL CHI
Total/NA	Prep	3050B			364361	12/09/16 09:25	JEF	TAL CHI
Total/NA	Analysis	6010B		1	364788	12/12/16 20:19	PJ1	TAL CHI
Total/NA	Prep	7471B			364425	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 11:39	MJD	TAL CHI

Client Sample ID: 1314V3-04-G01

Lab Sample ID: 500-121121-22

Date Collected: 12/06/16 10:15

Matrix: Water

Date Received: 12/07/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	364795	12/13/16 12:21	TCT	TAL CHI
Total/NA	Prep	3510C			364105	12/08/16 07:23	JJH	TAL CHI
Total/NA	Analysis	8270D		1	364202	12/09/16 01:34	AJD	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	364376	12/08/16 16:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		2	364442	12/09/16 12:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			364135	12/08/16 08:28	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	364442	12/09/16 14:08	FXG	TAL CHI
Total/NA	Prep	7470A			364699	12/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	365078	12/14/16 09:48	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TestAmerica Chicago

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121121-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL
 Phone: 708.534.5200 Fax: 708.534.5200



500-121121 COC

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121121
 Chain of Custody Number: 2846-21
 Page _____ of _____
 Temperature °C of Cooler: 3.3, 4.5

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
EE		1009008-0046-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	Vol	Sub-	Total Trace Metals	TC-Metals	Trace Metals	1st/2nd/3rd
E74		50012744									
Project Location/State		Lab PM									
Rock Island County, IL		D. Van Dyke									
Sampler		Sample ID		Sampling							
S. Cooper				Date	Time						
1		1314V3-08-B01 (0-6)	12-6-16	0815	25	X	X	X	X	X	
2		1314V3-08-B01 (6-12)	12-6-16	0820	25	X	X	X	X	X	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other 10 Days

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-6-16</u>	Time: <u>1115</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CRET</u>	Date: <u>12/7/16</u>	Time: <u>1330</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>Fed-X</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121121

Chain of Custody Number: E846-22

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
EE		1009008-0046-01											
Project Name		Lab Project #		Date		Time		# of Containers		Matrix			
I14		50012744											
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix			
Rock Island County, IL		50012744											
Sampler		Lab PM		Date		Time		# of Containers		Matrix			
S. Cooper		D. Wright											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Voc	Svoc	Total TAC	TAC Metals	TAC Metals	PH/0/6 Solids	Comments
3		1314V3-01-B01(0-6)	12-6-16	0855	2 S		X	X	X	X	X		64608
4		1314V3-01-B01(6-11)	12-6-16	0900	2 S		X	X	X	X	X		
5		1314V3-01-C01	12-6-16	0915	6 W		X	X	X	X	X		
6		1314V3-00-TB01	-	-	2 W		X						
7		1314V3-01-B02(0-8)	12-6-16	1055	2 S		X	X	X	X	X		
8		1314V3-01-B03(0-8)	12-6-16	1140	2 S		X	X	X	X	X		
9		1314V3-01-B04(0-6)	12-6-16	1210	2 S		X	X	X	X	X		
10		1314V3-01-B04(6-112)	12-6-16	1215	2 S		X	X	X	X	X		
11		1314V3-01-B05(0-6)	12-6-16	1240	2 S		X	X	X	X	X		
12		1314V3-01-B05(6-12)	12-6-16	1245	2 S		X	X	X	X	X		

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>TE</u>	Date: <u>12-6-16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHE</u>	Date: <u>12/7/16</u>	Time: <u>1730</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key:

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Silt	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121121
 Chain of Custody Number: 1246-24
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #														
Project Location/State		Lab Project #														
Sampler		Lab PM														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
13		1314V3-01-B06 (0-8)	12-6-16	1500	2 S		VOL	S VOL	TOTAL TAC	MOBILE	TCP/SPUR	TAC MOBILE	PH/G/L SPLICED			64C08
14		1314V3-01-B06 (8-15)	12-6-16	1505	2 S											
15		1314V3-01-B06 (8-15) D	12-6-16	1505	2 S											
16		1314V3-01-B07 (0-6)	12-6-16	1535	2 S											
17		1314V3-01-B07 (6-12)	12-6-16	1546	2 S											
18		1314V3-01-B08 (0-4)	12-6-16	1615	2 S											
19		1314V3-01-B08 (4-9)	12-6-16	1620	2 S											
12-6-16																

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>BC</u>	Date 12-6-16	Time 1715	Received By <u>[Signature]</u>	Company TA-CHE	Date 12/7/16	Time 1330
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121121
 Chain of Custody Number: E46-23
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter					Preservative Key	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab Project #		Parameter							Preservative Key	
Sampler		Lab RM		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments
EE		1009008-0046-01										1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Rock Island County, IL		50012744										
S. Cooper		D. Wright										
20		1314V3-04-1301(0-6)	12-6-16	1000	2 S	VOC	X	X	X	X	X	64008
21		1314V3-04-1301(6-1)	12-6-16	1005	2 S	SVOC	X	X	X	X	X	
22		1314V3-04-601	12-6-16	1015	2 S	Total PAH metals	X	X	X	X	X	
						Total Spill PAH metals						
						PAH/g Solid						
22 12-6-16												

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-6-16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>EA-ENR</u>	Date: <u>12/7/16</u>	Time: <u>1330</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121121-1

Login Number: 121121

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,4.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121163-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/22/2016 11:00:32 AM

Richard Wright, Senior Project Manager
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Job ID: 500-121163-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121163-1

Comments

No additional comments.

Receipt

The samples were received on 12/8/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 365228 was non-detect for all target analytes. Samples associated with this method blank detected Acetone just above the reporting limit. Acetone is a known lab contaminant; therefore all low level detects for this compound should be considered lab contamination. The results have been flagged with a "CN" to denote the probable contamination. 1314V3-07-G01 (500-121163-9)

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: 1314V3-07-B02 (0-5) (500-121163-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The method blank for preparation batch 500-364997 contained Naphthalene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: 1314V3-07-B01 (0-6) (500-121163-8) and 1314V3-07-B02 (0-5) (500-121163-10). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 365567 had 1 analyte outside control limits: 4-Nitroaniline. These results have been reported and qualified. (LCS 500-365567/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples were diluted due to the nature of the sample matrix: 1314V3-07-B02 (0-5) (500-121163-10), 1314V3-07-B03 (0-5.5) (500-121163-11) and 1314V3-07-B04 (0-5) (500-121163-12). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-364421 and 500-364618 contained Lead above the reporting limit (RL). The samples 1314V3-01-B10 (0-6) (500-121163-1), 1314V3-06-B10 (0-6) (500-121163-2), 1314V3-06-B10 (6-11) (500-121163-3), 1314V3-06-B11 (0-6) (500-121163-4), 1314V3-06-B11 (6-10.7) (500-121163-5), 1314V3-07-B01 (0-6) (500-121163-8), 1314V3-07-B02 (0-5) (500-121163-10), 1314V3-07-B04 (0-5) (500-121163-12) and 1314V3-07-B04 (5-11) (500-121163-13) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of the samples were not performed.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-364421 and 500-364618 and analytical batch 500-364787 contained Lead above the reporting limit (RL). Associated sample 1314V3-07-B03 (0-5.5) (500-121163-11) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the LB.

Method(s) 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-364837, at line 160, recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020A: The CCB at lines 155 and 159 had results greater than the reporting limit(RL) of 2 ppb for TI. The samples associated

Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Job ID: 500-121163-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

with these CCB were had results below the RL and therefore were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.063		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.068		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.043		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.073		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.057		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.035	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	560		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.80		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.071	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.023	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0072	J	0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0098	J	0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.23		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.031	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.37		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.34		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6) (Continued)

Lab Sample ID: 500-121163-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.19		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.23	F1	0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.10	F1	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.093	F1	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J F1	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098	F1	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.1		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	5900		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.7	B	0.53	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.7		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	9.7		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8800		11	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	910		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	120		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.3		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	420		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	65		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0057	J	0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.017	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.033	J	0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.066		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.10		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.034	0.0089	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.052		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11) (Continued)

Lab Sample ID: 500-121163-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.16	J	0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	0.91	J	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.085	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.1		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	6.1		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8500		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	2.3		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1200		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	190		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.7		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	210		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	49	J	51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	16		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.26		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.098	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.5	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.9		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	7.3		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	7900		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	3.7		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1100		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	180		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.8		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	390		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	36	J	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	21		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.095		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (0-6) (Continued)

Lab Sample ID: 500-121163-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.012	J	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.030	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	1.3	J	2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.5	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	8.3		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	8100		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	7.0		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1300		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	360		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	50	J	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0040		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.18		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Boron	0.28		0.050	0.025	mg/L	1		6020A	Total Recoverable
Cadmium	0.00021	J	0.00050	0.00019	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-G10 (Continued)

Lab Sample ID: 500-121163-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.0024	J	0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0033		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.015		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	6.3		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.012		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	25		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	1.1		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.011		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	4.3		0.50	0.19	mg/L	1		6020A	Total Recoverable
Sodium	98		0.20	0.088	mg/L	1		6020A	Total Recoverable
Vanadium	0.0033	J	0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.016	J	0.020	0.0046	mg/L	1		6020A	Total Recoverable

Client Sample ID: 1314V3-00-TB02

Lab Sample ID: 500-121163-7

No Detections.

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.048		0.038	0.016	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.18	J	0.25	0.038	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.058	J	0.50	0.045	mg/Kg	5	☼	8270D	Total/NA
Acenaphthylene	0.34		0.25	0.033	mg/Kg	5	☼	8270D	Total/NA
Acenaphthene	0.14	J	0.25	0.044	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.065	J	0.25	0.035	mg/Kg	5	☼	8270D	Total/NA
Diethyl phthalate	0.45	J	1.2	0.42	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.74		0.25	0.034	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.63		0.25	0.041	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	4.1		0.25	0.046	mg/Kg	5	☼	8270D	Total/NA
Pyrene	5.8		0.25	0.049	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2.2		0.25	0.033	mg/Kg	5	☼	8270D	Total/NA
Chrysene	3.1		0.25	0.067	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.8		0.25	0.053	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	2.4		0.25	0.073	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	5.0		0.25	0.048	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3.5		0.25	0.064	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.91		0.25	0.048	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3.6		0.25	0.080	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.49	J	1.5	0.31	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6) (Continued)

Lab Sample ID: 500-121163-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.0		0.74	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	330		0.74	0.14	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.30	0.064	mg/Kg	1	☼	6010B	Total/NA
Boron	26		3.7	0.52	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.15	0.043	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		150	48	mg/Kg	10	☼	6010B	Total/NA
Chromium	21	B	0.74	0.13	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.37	0.084	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.74	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		15	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	44		0.37	0.19	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6300		7.4	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.74	0.15	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.74	0.20	mg/Kg	1	☼	6010B	Total/NA
Potassium	540		37	6.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.74	0.37	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		74	9.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.37	0.11	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.5	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.81		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.072		0.025	0.013	mg/Kg	1	☼	7471B	Total/NA
pH	9.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-07-G01

Lab Sample ID: 500-121163-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0062	cn	0.0050	0.0017	mg/L	1		8260B	Total/NA
Benzo[a]anthracene	0.00039		0.00013	0.000046	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.00068		0.00016	0.000080	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.00078		0.00016	0.000065	mg/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.00055	J	0.00081	0.00030	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.00029		0.00016	0.000052	mg/L	1		8270D	Total/NA
Chrysene	0.00046		0.00016	0.000055	mg/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.00014	J	0.00024	0.000041	mg/L	1		8270D	Total/NA
Diethyl phthalate	0.0011	J	0.0016	0.00029	mg/L	1		8270D	Total/NA
Fluoranthene	0.00070	J	0.00081	0.00037	mg/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.00051		0.00016	0.000060	mg/L	1		8270D	Total/NA
Phenanthrene	0.00030	J	0.00081	0.00024	mg/L	1		8270D	Total/NA
Pyrene	0.00084		0.00081	0.00034	mg/L	1		8270D	Total/NA
Arsenic	0.0059		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.59		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Boron	1.5		0.050	0.025	mg/L	1		6020A	Total Recoverable
Calcium	200		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.0022	J	0.0050	0.00061	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-G01 (Continued)

Lab Sample ID: 500-121163-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0027		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.0067		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	21		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.011		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	23		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	0.55		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.0035		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	21		0.50	0.19	mg/L	1		6020A	Total Recoverable
Selenium	0.0015	J	0.0025	0.00083	mg/L	1		6020A	Total Recoverable
Sodium	36		0.20	0.088	mg/L	1		6020A	Total Recoverable
Zinc	0.015	J	0.020	0.0046	mg/L	1		6020A	Total Recoverable

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	12		2.6	0.82	mg/Kg	500	☼	8260B	Total/NA
Naphthalene	1.3		0.36	0.055	mg/Kg	10	☼	8270D	Total/NA
2-Methylnaphthalene	4.9		0.72	0.066	mg/Kg	10	☼	8270D	Total/NA
Acenaphthene	0.51		0.36	0.064	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene	2.7		0.36	0.050	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene	1.7		0.36	0.066	mg/Kg	10	☼	8270D	Total/NA
Pyrene	2.1		0.36	0.071	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	1.1		0.36	0.048	mg/Kg	10	☼	8270D	Total/NA
Chrysene	1.3		0.36	0.097	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.5		0.36	0.077	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.69		0.36	0.11	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1.1		0.36	0.069	mg/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.52		0.36	0.093	mg/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.22	J	0.36	0.069	mg/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.63		0.36	0.12	mg/Kg	10	☼	8270D	Total/NA
Arsenic	9.5		2.6	1.2	mg/Kg	5	☼	6010B	Total/NA
Barium	57		2.6	0.48	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.71	J	1.0	0.23	mg/Kg	5	☼	6010B	Total/NA
Boron	24		13	1.8	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.30	J	0.52	0.15	mg/Kg	5	☼	6010B	Total/NA
Calcium	41000		52	17	mg/Kg	5	☼	6010B	Total/NA
Chromium	14	B	2.6	0.45	mg/Kg	5	☼	6010B	Total/NA
Cobalt	5.7		1.3	0.29	mg/Kg	5	☼	6010B	Total/NA
Copper	22		2.6	0.56	mg/Kg	5	☼	6010B	Total/NA
Iron	50000		52	20	mg/Kg	5	☼	6010B	Total/NA
Lead	44		1.3	0.65	mg/Kg	5	☼	6010B	Total/NA
Magnesium	2500		26	11	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5) (Continued)

Lab Sample ID: 500-121163-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	780		2.6	0.51	mg/Kg	5	☼	6010B	Total/NA
Nickel	12		2.6	0.70	mg/Kg	5	☼	6010B	Total/NA
Potassium	440		130	21	mg/Kg	5	☼	6010B	Total/NA
Sodium	120	J	260	34	mg/Kg	5	☼	6010B	Total/NA
Vanadium	20		1.3	0.38	mg/Kg	5	☼	6010B	Total/NA
Zinc	88		5.2	1.6	mg/Kg	5	☼	6010B	Total/NA
Barium	0.89		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.081	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.036		0.020	0.0087	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0051		0.0050	0.0022	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.078		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.16		0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.019	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.061		0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.061		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.8		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.32		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.48		0.20	0.098	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.6		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.61		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.4		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
4-Nitroaniline - DL	3.0	*	1.9	0.82	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	6.3		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	4.7		0.19	0.039	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	4.1		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	5.3		0.19	0.053	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	7.5		0.19	0.042	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	2.7		0.19	0.058	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	4.1		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Arsenic	28		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	360		2.8	0.52	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.3		1.1	0.25	mg/Kg	5	☼	6010B	Total/NA
Boron	280		14	2.0	mg/Kg	5	☼	6010B	Total/NA
Cadmium	2.4		0.57	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	9500		57	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	44	B	2.8	0.49	mg/Kg	5	☼	6010B	Total/NA
Cobalt	14		1.4	0.32	mg/Kg	5	☼	6010B	Total/NA
Copper	77		2.8	0.61	mg/Kg	5	☼	6010B	Total/NA
Iron	190000		57	22	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5) (Continued)

Lab Sample ID: 500-121163-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	210		1.4	0.70	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1200		28	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	1300		2.8	0.56	mg/Kg	5	☼	6010B	Total/NA
Nickel	25		2.8	0.77	mg/Kg	5	☼	6010B	Total/NA
Potassium	330		140	23	mg/Kg	5	☼	6010B	Total/NA
Selenium	4.9		2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Silver	0.37	J	1.4	0.33	mg/Kg	5	☼	6010B	Total/NA
Sodium	180	J	280	37	mg/Kg	5	☼	6010B	Total/NA
Vanadium	36		1.4	0.41	mg/Kg	5	☼	6010B	Total/NA
Zinc	820		5.7	1.8	mg/Kg	5	☼	6010B	Total/NA
Barium	1.7		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.016		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Iron	9.4		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.13	B	0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	8.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.063		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	3.9	B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.12		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.026	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.044	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.027	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0089	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.29		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.066		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.91		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.97		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.92		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.7		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.4		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.7		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.64		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.9		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	3.6		0.19	0.042	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.3		0.19	0.057	mg/Kg	5	☼	8270D	Total/NA
Arsenic	6.7		2.7	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	89		2.7	0.50	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.1		1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Boron	60		14	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.5		0.55	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	16000		55	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	12	B	2.7	0.47	mg/Kg	5	☼	6010B	Total/NA
Cobalt	6.7		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (0-5) (Continued)

Lab Sample ID: 500-121163-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19		2.7	0.60	mg/Kg	5	☼	6010B	Total/NA
Iron	29000		55	21	mg/Kg	5	☼	6010B	Total/NA
Lead	53		1.4	0.68	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1600		27	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	420		2.7	0.54	mg/Kg	5	☼	6010B	Total/NA
Nickel	18		2.7	0.74	mg/Kg	5	☼	6010B	Total/NA
Potassium	860		140	22	mg/Kg	5	☼	6010B	Total/NA
Sodium	300		270	36	mg/Kg	5	☼	6010B	Total/NA
Vanadium	21		1.4	0.40	mg/Kg	5	☼	6010B	Total/NA
Zinc	450		5.5	1.7	mg/Kg	5	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0081		0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.0	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.053		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.022	0.0095	mg/Kg	1	☼	8260B	Total/NA
Arsenic	2.0		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8	J	3.1	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.079	J	0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	2000		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.3	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	5900		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	5.9		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1200		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	240		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	43	J	62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.3		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method	Method Description	Protocol	Laboratory
8260B	VOC	SW846	TAL CHI
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7470A	Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121163-1	1314V3-01-B10 (0-6)	Solid	12/07/16 08:40	12/08/16 09:00
500-121163-2	1314V3-06-B10 (0-6)	Solid	12/07/16 10:10	12/08/16 09:00
500-121163-3	1314V3-06-B10 (6-11)	Solid	12/07/16 10:15	12/08/16 09:00
500-121163-4	1314V3-06-B11 (0-6)	Solid	12/07/16 10:40	12/08/16 09:00
500-121163-5	1314V3-06-B11 (6-10.7)	Solid	12/07/16 10:45	12/08/16 09:00
500-121163-6	1314V3-06-G10	Water	12/07/16 11:05	12/08/16 09:00
500-121163-7	1314V3-00-TB02	Water	12/07/16 00:00	12/08/16 09:00
500-121163-8	1314V3-07-B01 (0-6)	Solid	12/07/16 13:50	12/08/16 09:00
500-121163-9	1314V3-07-G01	Water	12/07/16 14:00	12/08/16 09:00
500-121163-10	1314V3-07-B02 (0-5)	Solid	12/07/16 14:50	12/08/16 09:00
500-121163-11	1314V3-07-B03 (0-5.5)	Solid	12/07/16 15:15	12/08/16 09:00
500-121163-12	1314V3-07-B04 (0-5)	Solid	12/07/16 15:50	12/08/16 09:00
500-121163-13	1314V3-07-B04 (5-11)	Solid	12/07/16 15:55	12/08/16 09:00

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.025		0.025	0.011	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Benzene	<0.0025		0.0025	0.00063	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Bromodichloromethane	<0.0025		0.0025	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Bromoform	<0.0025		0.0025	0.00072	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Bromomethane	<0.0061		0.0061	0.0023	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
2-Butanone (MEK)	<0.0061		0.0061	0.0027	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Carbon disulfide	<0.0061		0.0061	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Carbon tetrachloride	<0.0025		0.0025	0.00071	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Chlorobenzene	<0.0025		0.0025	0.00091	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Chloroethane	<0.0061		0.0061	0.0018	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Chloroform	<0.0025		0.0025	0.00085	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Chloromethane	<0.0061		0.0061	0.0025	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00069	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Dibromochloromethane	<0.0025		0.0025	0.00080	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,1-Dichloroethane	<0.0025		0.0025	0.00084	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,2-Dichloroethane	<0.0061		0.0061	0.0019	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,1-Dichloroethene	<0.0025		0.0025	0.00084	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,2-Dichloropropane	<0.0025		0.0025	0.00063	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,3-Dichloropropene, Total	<0.0025		0.0025	0.00086	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
2-Hexanone	<0.0061		0.0061	0.0019	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Methylene Chloride	<0.0061		0.0061	0.0024	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0018	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00072	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Styrene	<0.0025		0.0025	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00078	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Tetrachloroethene	<0.0025		0.0025	0.00084	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Toluene	<0.0025		0.0025	0.00062	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00086	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00082	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Trichloroethene	<0.0025		0.0025	0.00083	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Vinyl acetate	<0.0061		0.0061	0.0021	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1
Xylenes, Total	<0.0049		0.0049	0.00079	mg/Kg	☼	12/08/16 13:05	12/09/16 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/08/16 13:05	12/09/16 15:11	1
Dibromofluoromethane	107		75 - 120	12/08/16 13:05	12/09/16 15:11	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/08/16 13:05	12/09/16 15:11	1
Toluene-d8 (Surr)	104		75 - 123	12/08/16 13:05	12/09/16 15:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Nitroaniline	<0.36 *		0.36	0.15	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Phenanthrene	0.026 J		0.036	0.0051	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Fluoranthene	0.063		0.036	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Pyrene	0.068		0.036	0.0073	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Benzo[a]anthracene	0.043		0.036	0.0049	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.046		0.036	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Benzo[b]fluoranthene	0.073		0.036	0.0079	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Benzo[k]fluoranthene	0.026	J	0.036	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Benzo[a]pyrene	0.057		0.036	0.0071	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Indeno[1,2,3-cd]pyrene	0.035	J	0.036	0.0095	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Dibenz(a,h)anthracene	0.010	J	0.036	0.0071	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
Benzo[g,h,i]perylene	0.044		0.036	0.012	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/16/16 18:31	12/20/16 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/16/16 18:31	12/20/16 13:21	1
Phenol-d5	99		36 - 123	12/16/16 18:31	12/20/16 13:21	1
Nitrobenzene-d5	96		33 - 124	12/16/16 18:31	12/20/16 13:21	1
2-Fluorobiphenyl	93		42 - 115	12/16/16 18:31	12/20/16 13:21	1
2,4,6-Tribromophenol	90		25 - 130	12/16/16 18:31	12/20/16 13:21	1
Terphenyl-d14	109		25 - 150	12/16/16 18:31	12/20/16 13:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Arsenic	4.0		0.57	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Barium	54		0.57	0.10	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Beryllium	0.54		0.23	0.049	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Boron	1.7	J	2.9	0.40	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Cadmium	0.24		0.11	0.033	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Calcium	23000		11	3.7	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Chromium	12	B	0.57	0.098	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Cobalt	6.9		0.29	0.065	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Copper	12		0.57	0.12	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Iron	12000		11	4.4	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Lead	24		0.29	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Magnesium	13000		5.7	2.3	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Manganese	280		0.57	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Nickel	24		0.57	0.15	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Potassium	560		29	4.7	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Sodium	350		57	7.5	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Vanadium	18		0.29	0.083	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1
Zinc	52		1.1	0.36	mg/Kg	☼	12/10/16 10:04	12/10/16 18:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 17:36	1
Boron	0.055	J	0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 86.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:36	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 17:36	1
Manganese	0.41		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:36	1
Nickel	0.026		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 17:36	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:36	1
Zinc	<0.50		0.50	0.020	mg/L		12/12/16 09:08	12/13/16 17:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.40		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 21:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 21:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.017	0.0091	mg/Kg	☼	12/09/16 15:45	12/12/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/12/16 13:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/08/16 13:05	12/09/16 15:36	1
Dibromofluoromethane	109		75 - 120	12/08/16 13:05	12/09/16 15:36	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/08/16 13:05	12/09/16 15:36	1
Toluene-d8 (Surr)	97		75 - 123	12/08/16 13:05	12/09/16 15:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Naphthalene	0.018	J	0.035	0.0054	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Hexachlorocyclopentadiene	<0.71	F1	0.71	0.20	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Methylnaphthalene	0.021	J	0.071	0.0065	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4-Dinitrophenol	<0.71	F1	0.71	0.62	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Acenaphthylene	0.023	J	0.035	0.0047	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Acenaphthene	0.0072	J	0.035	0.0063	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Nitrophenol	<0.71	F1	0.71	0.34	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Fluorene	0.0098	J	0.035	0.0050	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Nitroaniline	<0.35	*	0.35	0.15	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Phenanthrene	0.23		0.035	0.0049	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Anthracene	0.031	J	0.035	0.0059	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Fluoranthene	0.37		0.035	0.0065	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Pyrene	0.34		0.035	0.0070	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Benzo[a]anthracene	0.15		0.035	0.0048	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19		0.035	0.0096	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Benzo[b]fluoranthene	0.23	F1	0.035	0.0076	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Benzo[k]fluoranthene	0.10	F1	0.035	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Benzo[a]pyrene	0.17		0.035	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Indeno[1,2,3-cd]pyrene	0.093	F1	0.035	0.0092	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Dibenz(a,h)anthracene	0.030	J F1	0.035	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
Benzo[g,h,i]perylene	0.098	F1	0.035	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/16/16 18:31	12/20/16 13:49	1
Phenol-d5	85		36 - 123	12/16/16 18:31	12/20/16 13:49	1
Nitrobenzene-d5	82		33 - 124	12/16/16 18:31	12/20/16 13:49	1
2-Fluorobiphenyl	79		42 - 115	12/16/16 18:31	12/20/16 13:49	1
2,4,6-Tribromophenol	74		25 - 130	12/16/16 18:31	12/20/16 13:49	1
Terphenyl-d14	93		25 - 150	12/16/16 18:31	12/20/16 13:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Arsenic	2.1		0.53	0.24	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Barium	24		0.53	0.096	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Beryllium	0.37		0.21	0.045	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Boron	3.4		2.6	0.37	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Cadmium	0.17		0.11	0.030	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Calcium	5900		11	3.4	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Chromium	7.7	B	0.53	0.090	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Cobalt	3.7		0.26	0.059	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Copper	9.7		0.53	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Iron	8800		11	4.0	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Lead	18		0.26	0.13	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Magnesium	910		5.3	2.1	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Manganese	120		0.53	0.10	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Nickel	9.3		0.53	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Potassium	420		26	4.3	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Sodium	65		53	6.9	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Vanadium	13		0.26	0.077	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1
Zinc	48		1.1	0.33	mg/Kg	☼	12/10/16 10:04	12/10/16 18:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 17:42	1
Boron	<0.50		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 17:42	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:42	1
Cobalt	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:42	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 17:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 17:42	1
Manganese	0.76		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:42	1
Nickel	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:42	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 17:42	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 17:42	1
Zinc	0.14	J B	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 17:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 21:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 21:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0089	mg/Kg	☼	12/09/16 15:45	12/12/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			12/12/16 13:08	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 92.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Carbon disulfide	<0.0043		0.0043	0.00088	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/08/16 13:05	12/09/16 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/08/16 13:05	12/09/16 16:02	1
Dibromofluoromethane	108		75 - 120	12/08/16 13:05	12/09/16 16:02	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	12/08/16 13:05	12/09/16 16:02	1
Toluene-d8 (Surr)	109		75 - 123	12/08/16 13:05	12/09/16 16:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 92.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Naphthalene	0.0057	J	0.034	0.0053	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4-Dinitrophenol	<0.69		0.69	0.61	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Acenaphthylene	0.017	J	0.034	0.0045	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Nitrophenol	<0.69		0.69	0.33	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Fluorene	0.011	J	0.034	0.0048	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Nitroaniline	<0.34	*	0.34	0.14	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Hexachlorobenzene	<0.069		0.069	0.0080	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.28	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Phenanthrene	0.16		0.034	0.0048	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Anthracene	0.033	J	0.034	0.0058	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Carbazole	<0.17		0.17	0.086	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Fluoranthene	0.30		0.034	0.0064	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Pyrene	0.25		0.034	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Benzo[a]anthracene	0.14		0.034	0.0046	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 92.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13		0.034	0.0094	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Benzo[b]fluoranthene	0.15		0.034	0.0074	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Benzo[k]fluoranthene	0.066		0.034	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Benzo[a]pyrene	0.10		0.034	0.0067	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Indeno[1,2,3-cd]pyrene	0.052		0.034	0.0089	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Dibenz(a,h)anthracene	0.022	J	0.034	0.0067	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
Benzo[g,h,i]perylene	0.052		0.034	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	12/16/16 18:31	12/20/16 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		40 - 130	12/16/16 18:31	12/20/16 14:17	1
Phenol-d5	98		36 - 123	12/16/16 18:31	12/20/16 14:17	1
Nitrobenzene-d5	94		33 - 124	12/16/16 18:31	12/20/16 14:17	1
2-Fluorobiphenyl	92		42 - 115	12/16/16 18:31	12/20/16 14:17	1
2,4,6-Tribromophenol	93		25 - 130	12/16/16 18:31	12/20/16 14:17	1
Terphenyl-d14	108		25 - 150	12/16/16 18:31	12/20/16 14:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Arsenic	3.8		0.51	0.24	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Barium	38		0.51	0.094	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Beryllium	0.16	J	0.20	0.044	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Boron	0.91	J	2.6	0.36	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Cadmium	0.085	J	0.10	0.030	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Calcium	1700		10	3.3	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Chromium	7.1	B	0.51	0.088	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Cobalt	3.1		0.26	0.058	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Copper	6.1		0.51	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Iron	8500		10	3.9	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Lead	2.3		0.26	0.13	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Magnesium	1200		5.1	2.1	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Manganese	190		0.51	0.10	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Nickel	8.7		0.51	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Potassium	210		26	4.2	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Selenium	0.28	J	0.51	0.25	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Sodium	49	J	51	6.7	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Vanadium	10		0.26	0.075	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1
Zinc	16		1.0	0.32	mg/Kg	☼	12/10/16 10:04	12/10/16 18:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 17:58	1
Boron	<0.50		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 17:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 92.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Iron	<0.40		0.40	0.20	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Manganese	1.8		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Nickel	0.030		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Silver	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 17:58	1
Zinc	0.032	J B	0.50	0.020	mg/L	-	12/12/16 09:08	12/13/16 17:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.091		0.025	0.010	mg/L	-	12/12/16 09:04	12/15/16 14:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/12/16 09:08	12/12/16 21:42	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/12/16 09:08	12/12/16 21:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg	☼	12/09/16 15:45	12/12/16 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/12/16 13:10	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
2-Butanone (MEK)	<0.0037		0.0037	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/08/16 13:05	12/09/16 16:27	1
Dibromofluoromethane	109		75 - 120	12/08/16 13:05	12/09/16 16:27	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/08/16 13:05	12/09/16 16:27	1
Toluene-d8 (Surr)	98		75 - 123	12/08/16 13:05	12/09/16 16:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Nitroaniline	<0.35 *		0.35	0.15	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/16/16 18:31	12/20/16 14:45	1
Phenol-d5	93		36 - 123	12/16/16 18:31	12/20/16 14:45	1
Nitrobenzene-d5	88		33 - 124	12/16/16 18:31	12/20/16 14:45	1
2-Fluorobiphenyl	87		42 - 115	12/16/16 18:31	12/20/16 14:45	1
2,4,6-Tribromophenol	88		25 - 130	12/16/16 18:31	12/20/16 14:45	1
Terphenyl-d14	104		25 - 150	12/16/16 18:31	12/20/16 14:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Arsenic	2.1		0.54	0.25	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Barium	32		0.54	0.099	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Beryllium	0.26		0.22	0.047	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Boron	1.1 J		2.7	0.38	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Cadmium	0.098 J		0.11	0.031	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Calcium	1600		11	3.5	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Chromium	7.5 B		0.54	0.093	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Cobalt	3.9		0.27	0.061	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Copper	7.3		0.54	0.12	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Iron	7900		11	4.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Lead	3.7		0.27	0.13	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Magnesium	1100		5.4	2.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Manganese	180		0.54	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Nickel	8.8		0.54	0.15	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Potassium	390		27	4.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Sodium	36 J		54	7.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Vanadium	13		0.27	0.079	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1
Zinc	21		1.1	0.34	mg/Kg	☼	12/10/16 10:04	12/10/16 19:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19 J		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:05	1
Boron	0.057 J		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Iron	<0.40		0.40	0.20	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Manganese	0.095		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Silver	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:05	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/12/16 09:08	12/13/16 18:05	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/12/16 09:08	12/12/16 21:46	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/12/16 09:08	12/12/16 21:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0091	mg/Kg	☼	12/09/16 15:45	12/12/16 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU	-		12/12/16 13:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/08/16 13:05	12/09/16 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/08/16 13:05	12/09/16 16:53	1
Dibromofluoromethane	110		75 - 120	12/08/16 13:05	12/09/16 16:53	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/08/16 13:05	12/09/16 16:53	1
Toluene-d8 (Surr)	105		75 - 123	12/08/16 13:05	12/09/16 16:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Nitroaniline	<0.37 *		0.37	0.16	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Fluoranthene	0.030	J	0.037	0.0069	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Pyrene	0.030	J	0.037	0.0074	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Benzo[a]anthracene	0.014	J	0.037	0.0050	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.037	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Benzo[b]fluoranthene	0.019	J	0.037	0.0080	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Benzo[a]pyrene	0.015	J	0.037	0.0072	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/16/16 18:31	12/20/16 15:41	1
Phenol-d5	81		36 - 123	12/16/16 18:31	12/20/16 15:41	1
Nitrobenzene-d5	79		33 - 124	12/16/16 18:31	12/20/16 15:41	1
2-Fluorobiphenyl	79		42 - 115	12/16/16 18:31	12/20/16 15:41	1
2,4,6-Tribromophenol	52		25 - 130	12/16/16 18:31	12/20/16 15:41	1
Terphenyl-d14	94		25 - 150	12/16/16 18:31	12/20/16 15:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Arsenic	2.4		0.53	0.25	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Barium	51		0.53	0.097	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Beryllium	0.24		0.21	0.046	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Boron	1.3	J	2.7	0.37	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Cadmium	0.15		0.11	0.031	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Calcium	7200		11	3.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Chromium	8.5	B	0.53	0.092	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Cobalt	4.5		0.27	0.060	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Copper	8.3		0.53	0.12	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Iron	8100		11	4.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Lead	7.0		0.27	0.13	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Magnesium	1300		5.3	2.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Manganese	410		0.53	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Nickel	13		0.53	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Potassium	360		27	4.3	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Selenium	0.39	J	0.53	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Sodium	50	J	53	7.0	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Vanadium	12		0.27	0.078	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1
Zinc	24		1.1	0.34	mg/Kg	☼	12/10/16 10:04	12/10/16 19:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:12	1
Boron	<0.50		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 87.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:12	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 18:12	1
Manganese	0.74		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:12	1
Nickel	0.020	J	0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 18:12	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:12	1
Zinc	0.022	J B	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 18:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 21:50	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 21:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0092	mg/Kg	☼	12/09/16 15:45	12/12/16 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/12/16 13:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Date Collected: 12/07/16 11:05

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/15/16 12:16	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/15/16 12:16	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:16	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/15/16 12:16	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/15/16 12:16	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/15/16 12:16	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/15/16 12:16	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:16	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/15/16 12:16	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:16	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/15/16 12:16	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/15/16 12:16	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/15/16 12:16	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/15/16 12:16	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/15/16 12:16	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:16	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:16	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/15/16 12:16	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/15/16 12:16	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/15/16 12:16	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/15/16 12:16	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/15/16 12:16	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/15/16 12:16	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/15/16 12:16	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:16	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:16	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/15/16 12:16	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:16	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/15/16 12:16	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/15/16 12:16	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/15/16 12:16	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/15/16 12:16	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/15/16 12:16	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/15/16 12:16	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/15/16 12:16	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/15/16 12:16	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/15/16 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		71 - 120		12/15/16 12:16	1
Dibromofluoromethane	90		70 - 120		12/15/16 12:16	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		12/15/16 12:16	1
Toluene-d8 (Surr)	91		75 - 120		12/15/16 12:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 16:12	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/14/16 07:11	12/14/16 16:12	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 16:12	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Date Collected: 12/07/16 11:05

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		12/14/16 07:11	12/14/16 16:12	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/14/16 07:11	12/14/16 16:12	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		12/14/16 07:11	12/14/16 16:12	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/14/16 07:11	12/14/16 16:12	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		12/14/16 07:11	12/14/16 16:12	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 16:12	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		12/14/16 07:11	12/14/16 16:12	1
4-Nitrophenol	<0.016		0.016	0.0060	mg/L		12/14/16 07:11	12/14/16 16:12	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		12/14/16 07:11	12/14/16 16:12	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		12/14/16 07:11	12/14/16 16:12	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		12/14/16 07:11	12/14/16 16:12	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		12/14/16 07:11	12/14/16 16:12	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		12/14/16 07:11	12/14/16 16:12	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		12/14/16 07:11	12/14/16 16:12	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		12/14/16 07:11	12/14/16 16:12	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		12/14/16 07:11	12/14/16 16:12	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/14/16 07:11	12/14/16 16:12	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/14/16 07:11	12/14/16 16:12	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 16:12	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/14/16 07:11	12/14/16 16:12	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/14/16 07:11	12/14/16 16:12	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/14/16 07:11	12/14/16 16:12	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/14/16 07:11	12/14/16 16:12	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/14/16 07:11	12/14/16 16:12	1
Diethyl phthalate	<0.0016		0.0016	0.00029	mg/L		12/14/16 07:11	12/14/16 16:12	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/14/16 07:11	12/14/16 16:12	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00059	mg/L		12/14/16 07:11	12/14/16 16:12	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		12/14/16 07:11	12/14/16 16:12	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		12/14/16 07:11	12/14/16 16:12	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		12/14/16 07:11	12/14/16 16:12	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/14/16 07:11	12/14/16 16:12	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/14/16 07:11	12/14/16 16:12	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/14/16 07:11	12/14/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Date Collected: 12/07/16 11:05

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/14/16 07:11	12/14/16 16:12	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		12/14/16 07:11	12/14/16 16:12	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/14/16 07:11	12/14/16 16:12	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		12/14/16 07:11	12/14/16 16:12	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		12/14/16 07:11	12/14/16 16:12	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/14/16 07:11	12/14/16 16:12	1
N-Nitrosodiphenylamine	<0.00080		0.00080	0.00030	mg/L		12/14/16 07:11	12/14/16 16:12	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/14/16 07:11	12/14/16 16:12	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		12/14/16 07:11	12/14/16 16:12	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/14/16 07:11	12/14/16 16:12	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		12/14/16 07:11	12/14/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		30 - 150	12/14/16 07:11	12/14/16 16:12	1
2-Fluorobiphenyl	78		30 - 123	12/14/16 07:11	12/14/16 16:12	1
2-Fluorophenol	64		30 - 110	12/14/16 07:11	12/14/16 16:12	1
Nitrobenzene-d5	84		33 - 139	12/14/16 07:11	12/14/16 16:12	1
Phenol-d5	49		20 - 100	12/14/16 07:11	12/14/16 16:12	1
Terphenyl-d14	92		42 - 150	12/14/16 07:11	12/14/16 16:12	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0040		0.0010	0.00044	mg/L		12/09/16 08:58	12/15/16 12:14	1
Barium	0.18		0.0025	0.00084	mg/L		12/09/16 08:58	12/13/16 16:18	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		12/09/16 08:58	12/15/16 12:14	1
Boron	0.28		0.050	0.025	mg/L		12/09/16 08:58	12/16/16 11:54	1
Cadmium	0.00021	J	0.00050	0.00019	mg/L		12/09/16 08:58	12/13/16 16:18	1
Calcium	130		0.20	0.11	mg/L		12/09/16 08:58	12/15/16 12:14	1
Chromium	0.0024	J	0.0050	0.00061	mg/L		12/09/16 08:58	12/13/16 16:18	1
Cobalt	0.0033		0.0010	0.00019	mg/L		12/09/16 08:58	12/13/16 16:18	1
Copper	0.015		0.0020	0.00096	mg/L		12/09/16 08:58	12/15/16 12:14	1
Iron	6.3		0.10	0.026	mg/L		12/09/16 08:58	12/13/16 16:18	1
Lead	0.012		0.00050	0.00014	mg/L		12/09/16 08:58	12/13/16 16:18	1
Magnesium	25		0.20	0.083	mg/L		12/09/16 08:58	12/13/16 16:18	1
Manganese	1.1		0.0025	0.00099	mg/L		12/09/16 08:58	12/13/16 16:18	1
Nickel	0.011		0.0020	0.00053	mg/L		12/09/16 08:58	12/13/16 16:18	1
Potassium	4.3		0.50	0.19	mg/L		12/09/16 08:58	12/13/16 16:18	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/09/16 08:58	12/15/16 12:14	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/09/16 08:58	12/13/16 16:18	1
Sodium	98		0.20	0.088	mg/L		12/09/16 08:58	12/15/16 12:14	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 08:58	12/13/16 16:18	1
Vanadium	0.0033	J	0.0050	0.0022	mg/L		12/09/16 08:58	12/13/16 16:18	1
Zinc	0.016	J	0.020	0.0046	mg/L		12/09/16 08:58	12/13/16 16:18	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/09/16 13:00	12/12/16 10:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-00-TB02

Lab Sample ID: 500-121163-7

Date Collected: 12/07/16 00:00

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/15/16 12:43	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/15/16 12:43	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:43	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/15/16 12:43	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/15/16 12:43	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/15/16 12:43	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/15/16 12:43	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:43	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/15/16 12:43	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:43	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/15/16 12:43	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/15/16 12:43	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/15/16 12:43	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/15/16 12:43	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/15/16 12:43	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:43	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:43	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/15/16 12:43	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/15/16 12:43	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/15/16 12:43	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/15/16 12:43	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/15/16 12:43	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/15/16 12:43	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/15/16 12:43	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:43	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/15/16 12:43	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/15/16 12:43	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/15/16 12:43	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/15/16 12:43	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/15/16 12:43	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/15/16 12:43	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/15/16 12:43	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/15/16 12:43	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/15/16 12:43	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/15/16 12:43	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/15/16 12:43	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/15/16 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		71 - 120		12/15/16 12:43	1
Dibromofluoromethane	92		70 - 120		12/15/16 12:43	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		12/15/16 12:43	1
Toluene-d8 (Surr)	91		75 - 120		12/15/16 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.048		0.038	0.016	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Benzene	<0.0038		0.0038	0.00096	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Bromodichloromethane	<0.0038		0.0038	0.00077	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Bromoform	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Bromomethane	<0.0095		0.0095	0.0036	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
2-Butanone (MEK)	<0.0095		0.0095	0.0042	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Carbon disulfide	<0.0095		0.0095	0.0020	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Carbon tetrachloride	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Chlorobenzene	<0.0038		0.0038	0.0014	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Chloroethane	<0.0095		0.0095	0.0028	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Chloroform	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Chloromethane	<0.0095		0.0095	0.0038	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Dibromochloromethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,1-Dichloroethane	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,2-Dichloroethane	<0.0095		0.0095	0.0029	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,1-Dichloroethene	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,2-Dichloropropane	<0.0038		0.0038	0.00098	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Ethylbenzene	<0.0038		0.0038	0.0018	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
2-Hexanone	<0.0095		0.0095	0.0029	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Methylene Chloride	<0.0095		0.0095	0.0037	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
4-Methyl-2-pentanone (MIBK)	<0.0095		0.0095	0.0028	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Methyl tert-butyl ether	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Styrene	<0.0038		0.0038	0.0011	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Tetrachloroethene	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Toluene	<0.0038		0.0038	0.00095	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.0017	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Trichloroethene	<0.0038		0.0038	0.0013	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Vinyl acetate	<0.0095		0.0095	0.0033	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Vinyl chloride	<0.0038		0.0038	0.0017	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1
Xylenes, Total	<0.0076		0.0076	0.0012	mg/Kg	☼	12/07/16 13:50	12/11/16 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/07/16 13:50	12/11/16 12:50	1
Dibromofluoromethane	101		75 - 120	12/07/16 13:50	12/11/16 12:50	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/07/16 13:50	12/11/16 12:50	1
Toluene-d8 (Surr)	107		75 - 123	12/07/16 13:50	12/11/16 12:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.2		1.2	0.55	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Bis(2-chloroethyl)ether	<1.2		1.2	0.37	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
1,3-Dichlorobenzene	<1.2		1.2	0.28	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
1,4-Dichlorobenzene	<1.2		1.2	0.32	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.2		1.2	0.30	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Methylphenol	<1.2		1.2	0.40	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,2'-oxybis[1-chloropropane]	<1.2		1.2	0.29	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
N-Nitrosodi-n-propylamine	<0.50		0.50	0.30	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Hexachloroethane	<1.2		1.2	0.38	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Chlorophenol	<1.2		1.2	0.42	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Nitrobenzene	<0.25		0.25	0.062	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Bis(2-chloroethoxy)methane	<1.2		1.2	0.25	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
1,2,4-Trichlorobenzene	<1.2		1.2	0.27	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Isophorone	<1.2		1.2	0.28	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4-Dimethylphenol	<2.5		2.5	0.94	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Hexachlorobutadiene	<1.2		1.2	0.39	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Naphthalene	0.18	J	0.25	0.038	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4-Dichlorophenol	<2.5		2.5	0.59	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Chloroaniline	<5.0		5.0	1.2	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4,6-Trichlorophenol	<2.5		2.5	0.85	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4,5-Trichlorophenol	<2.5		2.5	0.56	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Hexachlorocyclopentadiene	<5.0		5.0	1.4	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Methylnaphthalene	0.058	J	0.50	0.045	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Nitroaniline	<1.2		1.2	0.33	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Chloronaphthalene	<1.2		1.2	0.27	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Chloro-3-methylphenol	<2.5		2.5	0.84	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,6-Dinitrotoluene	<1.2		1.2	0.49	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2-Nitrophenol	<2.5		2.5	0.58	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
3-Nitroaniline	<2.5		2.5	0.77	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Dimethyl phthalate	<1.2		1.2	0.32	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4-Dinitrophenol	<5.0		5.0	4.4	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Acenaphthylene	0.34		0.25	0.033	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
2,4-Dinitrotoluene	<1.2		1.2	0.39	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Acenaphthene	0.14	J	0.25	0.044	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Dibenzofuran	<1.2		1.2	0.29	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Nitrophenol	<5.0		5.0	2.4	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Fluorene	0.065	J	0.25	0.035	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Nitroaniline	<2.5	*	2.5	1.0	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Bromophenyl phenyl ether	<1.2		1.2	0.33	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Hexachlorobenzene	<0.50		0.50	0.057	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Diethyl phthalate	0.45	J	1.2	0.42	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4-Chlorophenyl phenyl ether	<1.2		1.2	0.29	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Pentachlorophenol	<5.0		5.0	4.0	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
N-Nitrosodiphenylamine	<1.2		1.2	0.29	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
4,6-Dinitro-2-methylphenol	<5.0		5.0	2.0	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Phenanthrene	0.74		0.25	0.034	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Anthracene	0.63		0.25	0.041	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Carbazole	<1.2		1.2	0.62	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Di-n-butyl phthalate	<1.2		1.2	0.38	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Fluoranthene	4.1		0.25	0.046	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Pyrene	5.8		0.25	0.049	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Butyl benzyl phthalate	<1.2		1.2	0.47	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Benzo[a]anthracene	2.2		0.25	0.033	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	3.1		0.25	0.067	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
3,3'-Dichlorobenzidine	<1.2		1.2	0.35	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Bis(2-ethylhexyl) phthalate	<1.2		1.2	0.45	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Di-n-octyl phthalate	<1.2		1.2	0.40	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Benzo[b]fluoranthene	5.8		0.25	0.053	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Benzo[k]fluoranthene	2.4		0.25	0.073	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Benzo[a]pyrene	5.0		0.25	0.048	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Indeno[1,2,3-cd]pyrene	3.5		0.25	0.064	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Dibenz(a,h)anthracene	0.91		0.25	0.048	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Benzo[g,h,i]perylene	3.6		0.25	0.080	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
3 & 4 Methylphenol	<1.2		1.2	0.41	mg/Kg	☼	12/16/16 18:31	12/21/16 22:22	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130				12/16/16 18:31	12/21/16 22:22	5
Phenol-d5	96		36 - 123				12/16/16 18:31	12/21/16 22:22	5
Nitrobenzene-d5	95		33 - 124				12/16/16 18:31	12/21/16 22:22	5
2-Fluorobiphenyl	99		42 - 115				12/16/16 18:31	12/21/16 22:22	5
2,4,6-Tribromophenol	69		25 - 130				12/16/16 18:31	12/21/16 22:22	5
Terphenyl-d14	120		25 - 150				12/16/16 18:31	12/21/16 22:22	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.5	0.31	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Arsenic	4.0		0.74	0.34	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Barium	330		0.74	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Beryllium	0.61		0.30	0.064	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Boron	26		3.7	0.52	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Cadmium	0.31		0.15	0.043	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Calcium	110000		150	48	mg/Kg	☼	12/10/16 10:04	12/10/16 19:48	10
Chromium	21	B	0.74	0.13	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Cobalt	7.0		0.37	0.084	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Copper	21		0.74	0.16	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Iron	14000		15	5.7	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Lead	44		0.37	0.19	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Magnesium	6300		7.4	3.0	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Manganese	510		0.74	0.15	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Nickel	20		0.74	0.20	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Potassium	540		37	6.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Selenium	0.79		0.74	0.37	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Silver	<0.37		0.37	0.087	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Sodium	160		74	9.8	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Thallium	<0.74		0.74	0.37	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Vanadium	23		0.37	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1
Zinc	110		1.5	0.47	mg/Kg	☼	12/10/16 10:04	12/10/16 19:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:18	1
Boron	0.53		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Chromium	0.055		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Iron	<0.40		0.40	0.20	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Manganese	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Silver	<0.025		0.025	0.010	mg/L	-	12/12/16 09:08	12/13/16 18:18	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/12/16 09:08	12/13/16 18:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/12/16 09:08	12/12/16 21:54	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	12/12/16 09:08	12/12/16 21:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/12/16 12:00	12/13/16 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.025	0.013	mg/Kg	☼	12/09/16 15:45	12/12/16 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.6		0.2	0.2	SU	-		12/12/16 13:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-G01

Lab Sample ID: 500-121163-9

Date Collected: 12/07/16 14:00

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0062	cn	0.0050	0.0017	mg/L			12/15/16 13:10	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/15/16 13:10	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/15/16 13:10	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/15/16 13:10	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/15/16 13:10	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/15/16 13:10	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/15/16 13:10	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/15/16 13:10	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/15/16 13:10	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/15/16 13:10	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/15/16 13:10	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/15/16 13:10	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/15/16 13:10	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/15/16 13:10	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/15/16 13:10	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/15/16 13:10	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/15/16 13:10	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/15/16 13:10	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/15/16 13:10	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/15/16 13:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/15/16 13:10	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/15/16 13:10	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/15/16 13:10	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/15/16 13:10	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/15/16 13:10	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/15/16 13:10	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/15/16 13:10	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/15/16 13:10	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/15/16 13:10	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/15/16 13:10	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/15/16 13:10	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/15/16 13:10	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/15/16 13:10	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/15/16 13:10	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/15/16 13:10	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/15/16 13:10	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/15/16 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		71 - 120		12/15/16 13:10	1
Dibromofluoromethane	91		70 - 120		12/15/16 13:10	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		12/15/16 13:10	1
Toluene-d8 (Surr)	92		75 - 120		12/15/16 13:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 16:40	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/14/16 07:11	12/14/16 16:40	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 16:40	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-G01

Lab Sample ID: 500-121163-9

Date Collected: 12/07/16 14:00

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00031	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4,5-Trichlorophenol	<0.0081		0.0081	0.0021	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00058	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4-Dichlorophenol	<0.0081		0.0081	0.0021	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4-Dimethylphenol	<0.0081		0.0081	0.0014	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,4-Dinitrotoluene	<0.00081		0.00081	0.00020	mg/L		12/14/16 07:11	12/14/16 16:40	1
2,6-Dinitrotoluene	<0.00081		0.00081	0.000059	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Methylphenol	<0.0016		0.0016	0.00025	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/14/16 07:11	12/14/16 16:40	1
2-Nitrophenol	<0.0081		0.0081	0.0020	mg/L		12/14/16 07:11	12/14/16 16:40	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/14/16 07:11	12/14/16 16:40	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		12/14/16 07:11	12/14/16 16:40	1
3-Nitroaniline	<0.0081		0.0081	0.0014	mg/L		12/14/16 07:11	12/14/16 16:40	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0048	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Chloro-3-methylphenol	<0.0081		0.0081	0.0019	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Chloroaniline	<0.0081		0.0081	0.0016	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Nitroaniline	<0.0081		0.0081	0.0013	mg/L		12/14/16 07:11	12/14/16 16:40	1
4-Nitrophenol	<0.016		0.016	0.0060	mg/L		12/14/16 07:11	12/14/16 16:40	1
Acenaphthene	<0.00081		0.00081	0.00025	mg/L		12/14/16 07:11	12/14/16 16:40	1
Acenaphthylene	<0.00081		0.00081	0.00022	mg/L		12/14/16 07:11	12/14/16 16:40	1
Anthracene	<0.00081		0.00081	0.00027	mg/L		12/14/16 07:11	12/14/16 16:40	1
Benzo[a]anthracene	0.00039		0.00013	0.000046	mg/L		12/14/16 07:11	12/14/16 16:40	1
Benzo[a]pyrene	0.00068		0.00016	0.000080	mg/L		12/14/16 07:11	12/14/16 16:40	1
Benzo[b]fluoranthene	0.00078		0.00016	0.000065	mg/L		12/14/16 07:11	12/14/16 16:40	1
Benzo[g,h,i]perylene	0.00055 J		0.00081	0.00030	mg/L		12/14/16 07:11	12/14/16 16:40	1
Benzo[k]fluoranthene	0.00029		0.00016	0.000052	mg/L		12/14/16 07:11	12/14/16 16:40	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/14/16 07:11	12/14/16 16:40	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00024	mg/L		12/14/16 07:11	12/14/16 16:40	1
Bis(2-ethylhexyl) phthalate	<0.0081		0.0081	0.0014	mg/L		12/14/16 07:11	12/14/16 16:40	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00039	mg/L		12/14/16 07:11	12/14/16 16:40	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/14/16 07:11	12/14/16 16:40	1
Chrysene	0.00046		0.00016	0.000055	mg/L		12/14/16 07:11	12/14/16 16:40	1
Dibenz(a,h)anthracene	0.00014 J		0.00024	0.000041	mg/L		12/14/16 07:11	12/14/16 16:40	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/14/16 07:11	12/14/16 16:40	1
Diethyl phthalate	0.0011 J		0.0016	0.00029	mg/L		12/14/16 07:11	12/14/16 16:40	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/14/16 07:11	12/14/16 16:40	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00059	mg/L		12/14/16 07:11	12/14/16 16:40	1
Di-n-octyl phthalate	<0.0081		0.0081	0.00085	mg/L		12/14/16 07:11	12/14/16 16:40	1
Fluoranthene	0.00070 J		0.00081	0.00037	mg/L		12/14/16 07:11	12/14/16 16:40	1
Fluorene	<0.00081		0.00081	0.00020	mg/L		12/14/16 07:11	12/14/16 16:40	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/14/16 07:11	12/14/16 16:40	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/14/16 07:11	12/14/16 16:40	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/14/16 07:11	12/14/16 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-G01

Lab Sample ID: 500-121163-9

Date Collected: 12/07/16 14:00

Matrix: Water

Date Received: 12/08/16 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/14/16 07:11	12/14/16 16:40	1
Indeno[1,2,3-cd]pyrene	0.00051		0.00016	0.000060	mg/L		12/14/16 07:11	12/14/16 16:40	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/14/16 07:11	12/14/16 16:40	1
Naphthalene	<0.00081		0.00081	0.00025	mg/L		12/14/16 07:11	12/14/16 16:40	1
Nitrobenzene	<0.00081		0.00081	0.00036	mg/L		12/14/16 07:11	12/14/16 16:40	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/14/16 07:11	12/14/16 16:40	1
N-Nitrosodiphenylamine	<0.00081		0.00081	0.00030	mg/L		12/14/16 07:11	12/14/16 16:40	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/14/16 07:11	12/14/16 16:40	1
Phenanthrene	0.00030	J	0.00081	0.00024	mg/L		12/14/16 07:11	12/14/16 16:40	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/14/16 07:11	12/14/16 16:40	1
Pyrene	0.00084		0.00081	0.00034	mg/L		12/14/16 07:11	12/14/16 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	103		30 - 150				12/14/16 07:11	12/14/16 16:40	1
<i>2-Fluorobiphenyl</i>	73		30 - 123				12/14/16 07:11	12/14/16 16:40	1
<i>2-Fluorophenol</i>	67		30 - 110				12/14/16 07:11	12/14/16 16:40	1
<i>Nitrobenzene-d5</i>	81		33 - 139				12/14/16 07:11	12/14/16 16:40	1
<i>Phenol-d5</i>	57		20 - 100				12/14/16 07:11	12/14/16 16:40	1
<i>Terphenyl-d14</i>	90		42 - 150				12/14/16 07:11	12/14/16 16:40	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0059		0.0010	0.00044	mg/L		12/09/16 08:58	12/15/16 12:19	1
Barium	0.59		0.0025	0.00084	mg/L		12/09/16 08:58	12/13/16 16:21	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		12/09/16 08:58	12/15/16 12:19	1
Boron	1.5		0.050	0.025	mg/L		12/09/16 08:58	12/16/16 12:30	1
Cadmium	<0.00050		0.00050	0.00019	mg/L		12/09/16 08:58	12/13/16 16:21	1
Calcium	200		0.20	0.11	mg/L		12/09/16 08:58	12/15/16 12:19	1
Chromium	0.0022	J	0.0050	0.00061	mg/L		12/09/16 08:58	12/13/16 16:21	1
Cobalt	0.0027		0.0010	0.00019	mg/L		12/09/16 08:58	12/13/16 16:21	1
Copper	0.0067		0.0020	0.00096	mg/L		12/09/16 08:58	12/15/16 12:19	1
Iron	21		0.10	0.026	mg/L		12/09/16 08:58	12/13/16 16:21	1
Lead	0.011		0.00050	0.00014	mg/L		12/09/16 08:58	12/13/16 16:21	1
Magnesium	23		0.20	0.083	mg/L		12/09/16 08:58	12/13/16 16:21	1
Manganese	0.55		0.0025	0.00099	mg/L		12/09/16 08:58	12/13/16 16:21	1
Nickel	0.0035		0.0020	0.00053	mg/L		12/09/16 08:58	12/13/16 16:21	1
Potassium	21		0.50	0.19	mg/L		12/09/16 08:58	12/13/16 16:21	1
Selenium	0.0015	J	0.0025	0.00083	mg/L		12/09/16 08:58	12/15/16 12:19	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/09/16 08:58	12/13/16 16:21	1
Sodium	36		0.20	0.088	mg/L		12/09/16 08:58	12/15/16 12:19	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 08:58	12/13/16 16:21	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		12/09/16 08:58	12/13/16 16:21	1
Zinc	0.015	J	0.020	0.0046	mg/L		12/09/16 08:58	12/13/16 16:21	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/09/16 13:00	12/12/16 10:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 90.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2.6		2.6	0.91	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Benzene	<0.13		0.13	0.077	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Bromodichloromethane	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Bromoform	<0.53		0.53	0.26	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Bromomethane	<1.1		1.1	0.42	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
2-Butanone (MEK)	<2.6		2.6	1.1	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Carbon disulfide	<1.1		1.1	0.42	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Carbon tetrachloride	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Chlorobenzene	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Chloroethane	<0.53		0.53	0.27	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Chloroform	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Chloromethane	<0.53		0.53	0.17	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
cis-1,2-Dichloroethene	<0.53		0.53	0.22	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
cis-1,3-Dichloropropene	<0.53		0.53	0.22	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Dibromochloromethane	<0.53		0.53	0.26	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,1-Dichloroethane	<0.53		0.53	0.22	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,2-Dichloroethane	<0.53		0.53	0.21	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,1-Dichloroethene	<0.53		0.53	0.21	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,2-Dichloropropane	<0.53		0.53	0.23	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,3-Dichloropropene, Total	<0.53		0.53	0.22	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Ethylbenzene	<0.13		0.13	0.096	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
2-Hexanone	12		2.6	0.82	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Methylene Chloride	<2.6		2.6	0.86	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
4-Methyl-2-pentanone (MIBK)	<2.6		2.6	1.1	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Methyl tert-butyl ether	<0.53		0.53	0.21	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Styrene	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,1,2,2-Tetrachloroethane	<0.53		0.53	0.21	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Tetrachloroethene	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Toluene	<0.13		0.13	0.077	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
trans-1,2-Dichloroethene	<0.53		0.53	0.18	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
trans-1,3-Dichloropropene	<0.53		0.53	0.19	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,1,1-Trichloroethane	<0.53		0.53	0.20	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
1,1,2-Trichloroethane	<0.53		0.53	0.19	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Trichloroethene	<0.26		0.26	0.086	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Vinyl acetate	<1.1		1.1	0.48	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Vinyl chloride	<0.26		0.26	0.14	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500
Xylenes, Total	<0.26		0.26	0.12	mg/Kg	☼	12/07/16 14:50	12/15/16 13:36	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		71 - 120	12/07/16 14:50	12/15/16 13:36	500
Dibromofluoromethane	93		70 - 120	12/07/16 14:50	12/15/16 13:36	500
1,2-Dichloroethane-d4 (Surr)	102		71 - 127	12/07/16 14:50	12/15/16 13:36	500
Toluene-d8 (Surr)	92		75 - 120	12/07/16 14:50	12/15/16 13:36	500

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.8		1.8	0.79	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Bis(2-chloroethyl)ether	<1.8		1.8	0.54	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
1,3-Dichlorobenzene	<1.8		1.8	0.40	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
1,4-Dichlorobenzene	<1.8		1.8	0.46	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.8		1.8	0.43	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Methylphenol	<1.8		1.8	0.57	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,2'-oxybis[1-chloropropane]	<1.8		1.8	0.41	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
N-Nitrosodi-n-propylamine	<0.72		0.72	0.44	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Hexachloroethane	<1.8		1.8	0.54	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Chlorophenol	<1.8		1.8	0.61	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Nitrobenzene	<0.36		0.36	0.089	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Bis(2-chloroethoxy)methane	<1.8		1.8	0.36	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
1,2,4-Trichlorobenzene	<1.8		1.8	0.39	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Isophorone	<1.8		1.8	0.40	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4-Dimethylphenol	<3.6		3.6	1.4	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Hexachlorobutadiene	<1.8		1.8	0.56	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Naphthalene	1.3		0.36	0.055	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4-Dichlorophenol	<3.6		3.6	0.85	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Chloroaniline	<7.2		7.2	1.7	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4,6-Trichlorophenol	<3.6		3.6	1.2	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4,5-Trichlorophenol	<3.6		3.6	0.82	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Hexachlorocyclopentadiene	<7.2		7.2	2.1	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Methylnaphthalene	4.9		0.72	0.066	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Nitroaniline	<1.8		1.8	0.48	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Chloronaphthalene	<1.8		1.8	0.39	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Chloro-3-methylphenol	<3.6		3.6	1.2	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,6-Dinitrotoluene	<1.8		1.8	0.70	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2-Nitrophenol	<3.6		3.6	0.84	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
3-Nitroaniline	<3.6		3.6	1.1	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Dimethyl phthalate	<1.8		1.8	0.47	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4-Dinitrophenol	<7.2		7.2	6.3	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Acenaphthylene	<0.36		0.36	0.047	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
2,4-Dinitrotoluene	<1.8		1.8	0.57	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Acenaphthene	0.51		0.36	0.064	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Dibenzofuran	<1.8		1.8	0.42	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Nitrophenol	<7.2		7.2	3.4	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Fluorene	<0.36		0.36	0.050	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Nitroaniline	<3.6 *		3.6	1.5	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Bromophenyl phenyl ether	<1.8		1.8	0.47	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Hexachlorobenzene	<0.72		0.72	0.083	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Diethyl phthalate	<1.8		1.8	0.61	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4-Chlorophenyl phenyl ether	<1.8		1.8	0.42	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Pentachlorophenol	<7.2		7.2	5.7	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
N-Nitrosodiphenylamine	<1.8		1.8	0.42	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
4,6-Dinitro-2-methylphenol	<7.2		7.2	2.9	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Phenanthrene	2.7		0.36	0.050	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Anthracene	<0.36		0.36	0.060	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Carbazole	<1.8		1.8	0.89	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Di-n-butyl phthalate	<1.8		1.8	0.54	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Fluoranthene	1.7		0.36	0.066	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Pyrene	2.1		0.36	0.071	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Butyl benzyl phthalate	<1.8		1.8	0.68	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Benzo[a]anthracene	1.1		0.36	0.048	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.3		0.36	0.097	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
3,3'-Dichlorobenzidine	<1.8		1.8	0.50	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Bis(2-ethylhexyl) phthalate	<1.8		1.8	0.65	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Di-n-octyl phthalate	<1.8		1.8	0.58	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Benzo[b]fluoranthene	1.5		0.36	0.077	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Benzo[k]fluoranthene	0.69		0.36	0.11	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Benzo[a]pyrene	1.1		0.36	0.069	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Indeno[1,2,3-cd]pyrene	0.52		0.36	0.093	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Dibenz(a,h)anthracene	0.22	J	0.36	0.069	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
Benzo[g,h,i]perylene	0.63		0.36	0.12	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10
3 & 4 Methylphenol	<1.8		1.8	0.60	mg/Kg	☼	12/16/16 18:31	12/21/16 22:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		40 - 130	12/16/16 18:31	12/21/16 22:50	10
Phenol-d5	106		36 - 123	12/16/16 18:31	12/21/16 22:50	10
Nitrobenzene-d5	121		33 - 124	12/16/16 18:31	12/21/16 22:50	10
2-Fluorobiphenyl	102		42 - 115	12/16/16 18:31	12/21/16 22:50	10
2,4,6-Tribromophenol	106		25 - 130	12/16/16 18:31	12/21/16 22:50	10
Terphenyl-d14	110		25 - 150	12/16/16 18:31	12/21/16 22:50	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2	1.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Arsenic	9.5		2.6	1.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Barium	57		2.6	0.48	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Beryllium	0.71	J	1.0	0.23	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Boron	24		13	1.8	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Cadmium	0.30	J	0.52	0.15	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Calcium	41000		52	17	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Chromium	14	B	2.6	0.45	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Cobalt	5.7		1.3	0.29	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Copper	22		2.6	0.56	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Iron	50000		52	20	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Lead	44		1.3	0.65	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Magnesium	2500		26	11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Manganese	780		2.6	0.51	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Nickel	12		2.6	0.70	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Potassium	440		130	21	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Selenium	<2.6		2.6	1.3	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Silver	<1.3		1.3	0.30	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Sodium	120	J	260	34	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Thallium	<2.6		2.6	1.3	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Vanadium	20		1.3	0.38	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5
Zinc	88		5.2	1.6	mg/Kg	☼	12/10/16 10:04	12/10/16 19:16	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.89		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:25	1
Boron	0.23	J	0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 90.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:25	1
Cobalt	0.010	J	0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:25	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 18:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 18:25	1
Manganese	6.1		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:25	1
Nickel	0.031		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 18:25	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:25	1
Zinc	0.081	J B	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 18:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.010	J	0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 21:59	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 21:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0092	mg/Kg	☼	12/09/16 15:45	12/12/16 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/12/16 13:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.020	0.0087	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
2-Butanone (MEK)	0.0051		0.0050	0.0022	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/08/16 13:05	12/09/16 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/08/16 13:05	12/09/16 17:43	1
Dibromofluoromethane	109		75 - 120	12/08/16 13:05	12/09/16 17:43	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/08/16 13:05	12/09/16 17:43	1
Toluene-d8 (Surr)	105		75 - 123	12/08/16 13:05	12/09/16 17:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Naphthalene	0.078		0.039	0.0060	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Methylnaphthalene	0.16		0.079	0.0072	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Acenaphthylene	0.019 J		0.039	0.0052	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Acenaphthene	0.061		0.039	0.0070	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Fluorene	0.061		0.039	0.0055	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Phenanthrene	1.8		0.039	0.0055	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Anthracene	0.32		0.039	0.0065	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Carbazole	0.48		0.20	0.098	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Indeno[1,2,3-cd]pyrene	1.6		0.039	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.61		0.039	0.0076	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Benzo[g,h,i]perylene	1.4		0.039	0.013	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/16/16 18:31	12/20/16 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130				12/16/16 18:31	12/20/16 16:37	1
Phenol-d5	85		36 - 123				12/16/16 18:31	12/20/16 16:37	1
Nitrobenzene-d5	81		33 - 124				12/16/16 18:31	12/20/16 16:37	1
2-Fluorobiphenyl	78		42 - 115				12/16/16 18:31	12/20/16 16:37	1
2,4,6-Tribromophenol	105		25 - 130				12/16/16 18:31	12/20/16 16:37	1
Terphenyl-d14	106		25 - 150				12/16/16 18:31	12/20/16 16:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	3.0	*	1.9	0.82	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Fluoranthene	6.3		0.19	0.036	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Pyrene	4.7		0.19	0.039	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Benzo[a]anthracene	4.1		0.19	0.026	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Chrysene	5.3		0.19	0.053	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Benzo[b]fluoranthene	7.5		0.19	0.042	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Benzo[k]fluoranthene	2.7		0.19	0.058	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5
Benzo[a]pyrene	4.1		0.19	0.038	mg/Kg	☼	12/16/16 18:31	12/21/16 23:18	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.7		5.7	1.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Arsenic	28		2.8	1.3	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Barium	360		2.8	0.52	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Beryllium	1.3		1.1	0.25	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Boron	280		14	2.0	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Cadmium	2.4		0.57	0.16	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Calcium	9500		57	18	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Chromium	44	B	2.8	0.49	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Cobalt	14		1.4	0.32	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Copper	77		2.8	0.61	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Iron	190000		57	22	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Lead	210		1.4	0.70	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Magnesium	1200		28	11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Manganese	1300		2.8	0.56	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Nickel	25		2.8	0.77	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Potassium	330		140	23	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Selenium	4.9		2.8	1.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Silver	0.37	J	1.4	0.33	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Sodium	180	J	280	37	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Vanadium	36		1.4	0.41	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5
Zinc	820		5.7	1.8	mg/Kg	☼	12/10/16 10:04	12/10/16 19:20	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.7		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:32	1
Boron	0.65		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:32	1
Cadmium	0.016		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:32	1
Cobalt	0.036		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:32	1
Iron	9.4		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 18:32	1
Lead	0.13 B		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 18:32	1
Manganese	8.3		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:32	1
Nickel	0.063		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:32	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 18:32	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:32	1
Zinc	3.9 B		0.50	0.020	mg/L		12/12/16 09:08	12/13/16 18:32	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:04	12/15/16 14:37	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:04	12/15/16 14:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:04	12/15/16 14:37	1
Manganese	<0.025		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 22:03	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 22:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.018	0.0094	mg/Kg	☼	12/09/16 15:45	12/12/16 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/12/16 13:24	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.010	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
2-Butanone (MEK)	<0.0058		0.0058	0.0026	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Chloroethane	<0.0058		0.0058	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Chloromethane	<0.0058		0.0058	0.0023	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00068	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Styrene	<0.0023		0.0023	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00099	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Vinyl acetate	<0.0058		0.0058	0.0020	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1
Xylenes, Total	<0.0046		0.0046	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 120	12/08/16 13:05	12/09/16 18:08	1
Dibromofluoromethane	103		75 - 120	12/08/16 13:05	12/09/16 18:08	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/08/16 13:05	12/09/16 18:08	1
Toluene-d8 (Surr)	111		75 - 123	12/08/16 13:05	12/09/16 18:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Naphthalene	0.026	J	0.038	0.0059	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Methylnaphthalene	0.044	J	0.078	0.0071	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Acenaphthylene	0.027	J	0.038	0.0051	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Acenaphthene	0.0089	J	0.038	0.0069	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Fluorene	0.011	J	0.038	0.0054	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Nitroaniline	<0.38	*	0.38	0.16	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Phenanthrene	0.29		0.038	0.0054	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Anthracene	0.066		0.038	0.0064	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Fluoranthene	0.91		0.038	0.0071	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Pyrene	0.97		0.038	0.0077	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Benzo[a]anthracene	0.92		0.038	0.0052	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.7		0.038	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Benzo[a]pyrene	2.4		0.038	0.0075	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Indeno[1,2,3-cd]pyrene	1.7		0.038	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Dibenz(a,h)anthracene	0.64		0.038	0.0074	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Benzo[g,h,i]perylene	1.9		0.038	0.012	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/16/16 18:31	12/20/16 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		40 - 130				12/16/16 18:31	12/20/16 17:04	1
Phenol-d5	74		36 - 123				12/16/16 18:31	12/20/16 17:04	1
Nitrobenzene-d5	77		33 - 124				12/16/16 18:31	12/20/16 17:04	1
2-Fluorobiphenyl	75		42 - 115				12/16/16 18:31	12/20/16 17:04	1
2,4,6-Tribromophenol	65		25 - 130				12/16/16 18:31	12/20/16 17:04	1
Terphenyl-d14	93		25 - 150				12/16/16 18:31	12/20/16 17:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3.6		0.19	0.042	mg/Kg	☼	12/16/16 18:31	12/21/16 23:46	5
Benzo[k]fluoranthene	1.3		0.19	0.057	mg/Kg	☼	12/16/16 18:31	12/21/16 23:46	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.5		5.5	1.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Arsenic	6.7		2.7	1.3	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Barium	89		2.7	0.50	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Beryllium	1.1		1.1	0.24	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Boron	60		14	1.9	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Cadmium	1.5		0.55	0.16	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Calcium	16000		55	18	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Chromium	12	B	2.7	0.47	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Cobalt	6.7		1.4	0.31	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Copper	19		2.7	0.60	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Iron	29000		55	21	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Lead	53		1.4	0.68	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Magnesium	1600		27	11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Manganese	420		2.7	0.54	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Nickel	18		2.7	0.74	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Potassium	860		140	22	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Selenium	<2.7		2.7	1.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Silver	<1.4		1.4	0.32	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Sodium	300		270	36	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Thallium	<2.7		2.7	1.4	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Vanadium	21		1.4	0.40	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5
Zinc	450		5.5	1.7	mg/Kg	☼	12/10/16 10:04	12/10/16 19:38	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 18:39	1
Boron	0.19	J	0.50	0.050	mg/L		12/12/16 09:08	12/13/16 18:39	1
Cadmium	0.0081		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 18:39	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:39	1
Cobalt	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:39	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 18:39	1
Manganese	1.5		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:39	1
Nickel	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 18:39	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 18:39	1
Zinc	1.0	B	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 18:39	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:04	12/15/16 14:44	1
Manganese	0.10		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 14:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 22:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 22:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.017	0.0089	mg/Kg	☼	12/09/16 15:45	12/12/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/12/16 13:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.022	0.0095	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Methylene Chloride	<0.0055		0.0055	0.0021	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	12/08/16 13:05	12/09/16 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/08/16 13:05	12/09/16 18:34	1
Dibromofluoromethane	111		75 - 120	12/08/16 13:05	12/09/16 18:34	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/08/16 13:05	12/09/16 18:34	1
Toluene-d8 (Surr)	106		75 - 123	12/08/16 13:05	12/09/16 18:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Nitroaniline	<0.42 *		0.42	0.18	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/16/16 18:31	12/20/16 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		40 - 130	12/16/16 18:31	12/20/16 12:53	1
Phenol-d5	89		36 - 123	12/16/16 18:31	12/20/16 12:53	1
Nitrobenzene-d5	81		33 - 124	12/16/16 18:31	12/20/16 12:53	1
2-Fluorobiphenyl	80		42 - 115	12/16/16 18:31	12/20/16 12:53	1
2,4,6-Tribromophenol	82		25 - 130	12/16/16 18:31	12/20/16 12:53	1
Terphenyl-d14	101		25 - 150	12/16/16 18:31	12/20/16 12:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Arsenic	2.0		0.62	0.29	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Barium	36		0.62	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Beryllium	0.69		0.25	0.054	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Boron	2.8 J		3.1	0.44	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Cadmium	0.079 J		0.12	0.036	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Calcium	2000		12	4.0	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Chromium	7.3 B		0.62	0.11	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Cobalt	8.2		0.31	0.070	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Copper	13		0.62	0.14	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Iron	5900		12	4.8	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Lead	5.9		0.31	0.16	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Magnesium	1200		6.2	2.5	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Manganese	240		0.62	0.12	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Nickel	11		0.62	0.17	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Potassium	830		31	5.1	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Selenium	<0.62		0.62	0.31	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Sodium	43 J		62	8.2	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Vanadium	7.3		0.31	0.091	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1
Zinc	42		1.2	0.39	mg/Kg	☼	12/10/16 10:04	12/10/16 19:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39 J		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 19:01	1
Boron	0.15 J		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 78.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 19:01	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 19:01	1
Cobalt	0.048		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 19:01	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 19:01	1
Manganese	10		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 19:01	1
Nickel	0.032		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 19:01	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 19:01	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 19:01	1
Zinc	0.038	J B	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 19:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 15:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 22:11	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 22:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.011	mg/Kg	☼	12/09/16 15:45	12/12/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/12/16 13:30	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

GC/MS VOA

Prep Batch: 364285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	5035	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	5035	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	5035	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	5035	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	5035	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	5035	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	5035	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	5035	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	5035	

Analysis Batch: 364313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	8260B	364285
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	8260B	364285
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	8260B	364285
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	8260B	364285
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	8260B	364285
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	8260B	364285
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	8260B	364285
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	8260B	364285
MB 500-364313/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-364313/5	Lab Control Sample	Total/NA	Solid	8260B	

Prep Batch: 364401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 364546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	8260B	364285
MB 500-364546/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-364546/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364546/19	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 365228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total/NA	Water	8260B	
500-121163-7	1314V3-00-TB02	Total/NA	Water	8260B	
500-121163-9	1314V3-07-G01	Total/NA	Water	8260B	
MB 500-365228/6	Method Blank	Total/NA	Water	8260B	
LCS 500-365228/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 365230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	8260B	364401
MB 500-365230/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-365230/4	Lab Control Sample	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

GC/MS Semi VOA

Prep Batch: 364997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total/NA	Water	3510C	
500-121163-9	1314V3-07-G01	Total/NA	Water	3510C	
MB 500-364997/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-364997/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 365040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total/NA	Water	8270D	364997
500-121163-9	1314V3-07-G01	Total/NA	Water	8270D	364997
MB 500-364997/1-A	Method Blank	Total/NA	Water	8270D	364997
LCS 500-364997/2-A	Lab Control Sample	Total/NA	Water	8270D	364997

Prep Batch: 365567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	3541	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	3541	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	3541	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	3541	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	3541	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	3541	
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	3541	
500-121163-11 - DL	1314V3-07-B03 (0-5.5)	Total/NA	Solid	3541	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	3541	
500-121163-12 - DL	1314V3-07-B04 (0-5)	Total/NA	Solid	3541	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	3541	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	3541	
MB 500-365567/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-365567/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121163-2 MS	1314V3-06-B10 (0-6)	Total/NA	Solid	3541	
500-121163-2 MSD	1314V3-06-B10 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 365747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-365567/1-A	Method Blank	Total/NA	Solid	8270D	365567
LCS 500-365567/2-A	Lab Control Sample	Total/NA	Solid	8270D	365567

Analysis Batch: 365886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	8270D	365567
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	8270D	365567
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	8270D	365567
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	8270D	365567
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	8270D	365567
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	8270D	365567
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	8270D	365567
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	8270D	365567
500-121163-2 MS	1314V3-06-B10 (0-6)	Total/NA	Solid	8270D	365567
500-121163-2 MSD	1314V3-06-B10 (0-6)	Total/NA	Solid	8270D	365567

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

GC/MS Semi VOA (Continued)

Analysis Batch: 366210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	8270D	365567
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	8270D	365567
500-121163-11 - DL	1314V3-07-B03 (0-5.5)	Total/NA	Solid	8270D	365567
500-121163-12 - DL	1314V3-07-B04 (0-5)	Total/NA	Solid	8270D	365567

Metals

Prep Batch: 364351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total Recoverable	Water	3005A	
500-121163-9	1314V3-07-G01	Total Recoverable	Water	3005A	
MB 500-364351/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-364351/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 364393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total/NA	Water	7470A	
500-121163-9	1314V3-07-G01	Total/NA	Water	7470A	
MB 500-364393/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-364393/13-A	Lab Control Sample	Total/NA	Water	7470A	

Leach Batch: 364394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	SPLP East	Solid	1312	
500-121163-2	1314V3-06-B10 (0-6)	SPLP East	Solid	1312	
500-121163-3	1314V3-06-B10 (6-11)	SPLP East	Solid	1312	
500-121163-5	1314V3-06-B11 (6-10.7)	SPLP East	Solid	1312	
500-121163-10	1314V3-07-B02 (0-5)	SPLP East	Solid	1312	
500-121163-11	1314V3-07-B03 (0-5.5)	SPLP East	Solid	1312	
500-121163-12	1314V3-07-B04 (0-5)	SPLP East	Solid	1312	
500-121163-13	1314V3-07-B04 (5-11)	SPLP East	Solid	1312	
LB 500-364394/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 364421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	1311	
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	1311	
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	1311	
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	1311	
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	1311	
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	1311	
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	1311	
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	1311	
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	1311	
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	1311	
LB 500-364421/1-B	Method Blank	TCLP	Solid	1311	
LB 500-364421/1-C	Method Blank	TCLP	Solid	1311	
500-121163-13 MS	1314V3-07-B04 (5-11)	TCLP	Solid	1311	
500-121163-13 DU	1314V3-07-B04 (5-11)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Metals (Continued)

Prep Batch: 364430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	7471B	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	7471B	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	7471B	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	7471B	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	7471B	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	7471B	
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	7471B	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	7471B	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	7471B	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	7471B	
MB 500-364430/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-364430/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 364513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	3050B	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	3050B	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	3050B	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	3050B	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	3050B	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	3050B	
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	3050B	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	3050B	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	3050B	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	3050B	
MB 500-364513/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-364513/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 364616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	SPLP East	Solid	3010A	364394
500-121163-2	1314V3-06-B10 (0-6)	SPLP East	Solid	3010A	364394
500-121163-3	1314V3-06-B10 (6-11)	SPLP East	Solid	3010A	364394
500-121163-5	1314V3-06-B11 (6-10.7)	SPLP East	Solid	3010A	364394
500-121163-10	1314V3-07-B02 (0-5)	SPLP East	Solid	3010A	364394
500-121163-11	1314V3-07-B03 (0-5.5)	SPLP East	Solid	3010A	364394
500-121163-12	1314V3-07-B04 (0-5)	SPLP East	Solid	3010A	364394
500-121163-13	1314V3-07-B04 (5-11)	SPLP East	Solid	3010A	364394
LB 500-364394/1-B	Method Blank	SPLP East	Solid	3010A	364394
LCS 500-364616/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 364618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	3010A	364421
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	3010A	364421
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	3010A	364421
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	3010A	364421
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	3010A	364421
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	3010A	364421
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	3010A	364421
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	3010A	364421

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Metals (Continued)

Prep Batch: 364618 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	3010A	364421
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	3010A	364421
LB 500-364421/1-B	Method Blank	TCLP	Solid	3010A	364421
LCS 500-364618/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121163-13 MS	1314V3-07-B04 (5-11)	TCLP	Solid	3010A	364421
500-121163-13 DU	1314V3-07-B04 (5-11)	TCLP	Solid	3010A	364421

Analysis Batch: 364622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	6010B	364513
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	6010B	364513
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	6010B	364513
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	6010B	364513
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	6010B	364513
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	6010B	364513
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	6010B	364513
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	6010B	364513
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	6010B	364513
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	6010B	364513
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	6010B	364513
MB 500-364513/1-A	Method Blank	Total/NA	Solid	6010B	364513
LCS 500-364513/2-A	Lab Control Sample	Total/NA	Solid	6010B	364513

Prep Batch: 364659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	7470A	364421
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	7470A	364421
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	7470A	364421
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	7470A	364421
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	7470A	364421
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	7470A	364421
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	7470A	364421
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	7470A	364421
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	7470A	364421
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	7470A	364421
LB 500-364421/1-C	Method Blank	TCLP	Solid	7470A	364421
MB 500-364659/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-364659/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 364704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	7471B	364430
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	7471B	364430
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	7471B	364430
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	7471B	364430
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	7471B	364430
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	7471B	364430
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	7471B	364430
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	7471B	364430
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	7471B	364430
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	7471B	364430

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Metals (Continued)

Analysis Batch: 364704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364430/12-A	Method Blank	Total/NA	Solid	7471B	364430
LCS 500-364430/13-A	Lab Control Sample	Total/NA	Solid	7471B	364430

Analysis Batch: 364705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-01-B10 (0-6)	Total/NA	Water	7470A	364393
500-121163-9	1314V3-07-G01	Total/NA	Water	7470A	364393
MB 500-364393/12-A	Method Blank	Total/NA	Water	7470A	364393
LCS 500-364393/13-A	Lab Control Sample	Total/NA	Water	7470A	364393

Analysis Batch: 364787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	6010B	364618
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	6010B	364618
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	6010B	364618
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	6010B	364618
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	6010B	364618
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	6010B	364618
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	6010B	364618
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	6010B	364618
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	6010B	364618
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	6010B	364618
LB 500-364421/1-B	Method Blank	TCLP	Solid	6010B	364618
LCS 500-364618/2-A	Lab Control Sample	Total/NA	Solid	6010B	364618
500-121163-13 MS	1314V3-07-B04 (5-11)	TCLP	Solid	6010B	364618
500-121163-13 DU	1314V3-07-B04 (5-11)	TCLP	Solid	6010B	364618

Analysis Batch: 364837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	6020A	364618
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	6020A	364618
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	6020A	364618
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	6020A	364618
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	6020A	364618
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	6020A	364618
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	6020A	364618
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	6020A	364618
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	6020A	364618
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	6020A	364618
LB 500-364421/1-B	Method Blank	TCLP	Solid	6020A	364618
LCS 500-364618/2-A	Lab Control Sample	Total/NA	Solid	6020A	364618
500-121163-13 MS	1314V3-07-B04 (5-11)	TCLP	Solid	6020A	364618
500-121163-13 DU	1314V3-07-B04 (5-11)	TCLP	Solid	6020A	364618

Analysis Batch: 364926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	TCLP	Solid	7470A	364659
500-121163-2	1314V3-06-B10 (0-6)	TCLP	Solid	7470A	364659
500-121163-3	1314V3-06-B10 (6-11)	TCLP	Solid	7470A	364659
500-121163-4	1314V3-06-B11 (0-6)	TCLP	Solid	7470A	364659
500-121163-5	1314V3-06-B11 (6-10.7)	TCLP	Solid	7470A	364659

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Metals (Continued)

Analysis Batch: 364926 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-8	1314V3-07-B01 (0-6)	TCLP	Solid	7470A	364659
500-121163-10	1314V3-07-B02 (0-5)	TCLP	Solid	7470A	364659
500-121163-11	1314V3-07-B03 (0-5.5)	TCLP	Solid	7470A	364659
500-121163-12	1314V3-07-B04 (0-5)	TCLP	Solid	7470A	364659
500-121163-13	1314V3-07-B04 (5-11)	TCLP	Solid	7470A	364659
LB 500-364421/1-C	Method Blank	TCLP	Solid	7470A	364659
MB 500-364659/12-A	Method Blank	Total/NA	Solid	7470A	364659
LCS 500-364659/13-A	Lab Control Sample	Total/NA	Solid	7470A	364659

Analysis Batch: 365026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total Recoverable	Water	6020A	364351
500-121163-9	1314V3-07-G01	Total Recoverable	Water	6020A	364351
MB 500-364351/1-A	Method Blank	Total Recoverable	Water	6020A	364351
LCS 500-364351/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364351

Analysis Batch: 365237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-364394/1-B	Method Blank	SPLP East	Solid	6010B	364616
LCS 500-364616/2-A	Lab Control Sample	Total/NA	Solid	6010B	364616

Analysis Batch: 365351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total Recoverable	Water	6020A	364351
500-121163-9	1314V3-07-G01	Total Recoverable	Water	6020A	364351
MB 500-364351/1-A	Method Blank	Total Recoverable	Water	6020A	364351
LCS 500-364351/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364351

Analysis Batch: 365431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	SPLP East	Solid	6010B	364616
500-121163-2	1314V3-06-B10 (0-6)	SPLP East	Solid	6010B	364616
500-121163-3	1314V3-06-B10 (6-11)	SPLP East	Solid	6010B	364616
500-121163-5	1314V3-06-B11 (6-10.7)	SPLP East	Solid	6010B	364616
500-121163-10	1314V3-07-B02 (0-5)	SPLP East	Solid	6010B	364616
500-121163-11	1314V3-07-B03 (0-5.5)	SPLP East	Solid	6010B	364616
500-121163-12	1314V3-07-B04 (0-5)	SPLP East	Solid	6010B	364616
500-121163-13	1314V3-07-B04 (5-11)	SPLP East	Solid	6010B	364616

Analysis Batch: 365522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-6	1314V3-06-G10	Total Recoverable	Water	6020A	364351
500-121163-9	1314V3-07-G01	Total Recoverable	Water	6020A	364351
MB 500-364351/1-A	Method Blank	Total Recoverable	Water	6020A	364351
LCS 500-364351/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364351

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

General Chemistry

Analysis Batch: 364349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	Moisture	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	Moisture	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	Moisture	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	Moisture	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	Moisture	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	Moisture	
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	Moisture	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	Moisture	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	Moisture	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	Moisture	
500-121163-2 DU	1314V3-06-B10 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 364725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121163-1	1314V3-01-B10 (0-6)	Total/NA	Solid	9045D	
500-121163-2	1314V3-06-B10 (0-6)	Total/NA	Solid	9045D	
500-121163-3	1314V3-06-B10 (6-11)	Total/NA	Solid	9045D	
500-121163-4	1314V3-06-B11 (0-6)	Total/NA	Solid	9045D	
500-121163-5	1314V3-06-B11 (6-10.7)	Total/NA	Solid	9045D	
500-121163-8	1314V3-07-B01 (0-6)	Total/NA	Solid	9045D	
500-121163-10	1314V3-07-B02 (0-5)	Total/NA	Solid	9045D	
500-121163-11	1314V3-07-B03 (0-5.5)	Total/NA	Solid	9045D	
500-121163-12	1314V3-07-B04 (0-5)	Total/NA	Solid	9045D	
500-121163-13	1314V3-07-B04 (5-11)	Total/NA	Solid	9045D	
500-121163-13 DU	1314V3-07-B04 (5-11)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - VOC

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-121163-6	1314V3-06-G10	91	90	100	91
500-121163-7	1314V3-00-TB02	89	92	101	91
500-121163-9	1314V3-07-G01	91	91	100	92
LCS 500-365228/4	Lab Control Sample	91	93	100	91
MB 500-365228/6	Method Blank	91	93	105	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-120)	(75-120)	(69-134)	(75-123)
500-121163-1	1314V3-01-B10 (0-6)	100	107	107	104
500-121163-2	1314V3-06-B10 (0-6)	98	109	103	97
500-121163-3	1314V3-06-B10 (6-11)	100	108	101	109
500-121163-4	1314V3-06-B11 (0-6)	98	109	106	98
500-121163-5	1314V3-06-B11 (6-10.7)	99	110	108	105
500-121163-8	1314V3-07-B01 (0-6)	101	101	107	107
500-121163-11	1314V3-07-B03 (0-5.5)	100	109	105	105
500-121163-12	1314V3-07-B04 (0-5)	94	103	104	111
500-121163-13	1314V3-07-B04 (5-11)	100	111	108	106
LCS 500-364313/5	Lab Control Sample	102	104	103	109
LCS 500-364546/5	Lab Control Sample	103	105	103	108
LCSD 500-364546/19	Lab Control Sample Dup	103	108	100	108
MB 500-364313/7	Method Blank	100	106	103	105
MB 500-364546/6	Method Blank	101	105	99	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-121163-10	1314V3-07-B02 (0-5)	90	93	102	92
LCS 500-365230/4	Lab Control Sample	91	93	100	91
MB 500-365230/6	Method Blank	91	93	105	91

Surrogate Legend

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121163-1	1314V3-01-B10 (0-6)	104	99	96	93	90	109
500-121163-2	1314V3-06-B10 (0-6)	92	85	82	79	74	93
500-121163-2 MS	1314V3-06-B10 (0-6)	99	98	90	88	86	120
500-121163-2 MSD	1314V3-06-B10 (0-6)	101	98	92	87	80	119
500-121163-3	1314V3-06-B10 (6-11)	106	98	94	92	93	108
500-121163-4	1314V3-06-B11 (0-6)	101	93	88	87	88	104
500-121163-5	1314V3-06-B11 (6-10.7)	86	81	79	79	52	94
500-121163-8	1314V3-07-B01 (0-6)	94	96	95	99	69	120
500-121163-10	1314V3-07-B02 (0-5)	112	106	121	102	106	110
500-121163-11	1314V3-07-B03 (0-5.5)	95	85	81	78	105	106
500-121163-11 - DL	1314V3-07-B03 (0-5.5)	99	95	98	89	83	98
500-121163-12	1314V3-07-B04 (0-5)	82	74	77	75	65	93
500-121163-12 - DL	1314V3-07-B04 (0-5)	86	83	84	89	51	88
500-121163-13	1314V3-07-B04 (5-11)	91	89	81	80	82	101
LCS 500-365567/2-A	Lab Control Sample	89	90	83	86	92	96
MB 500-365567/1-A	Method Blank	99	90	85	89	88	110

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (30-150)	FBP (30-123)	2FP (30-110)	NBZ (33-139)	PHL (20-100)	TPH (42-150)
500-121163-6	1314V3-06-G10	90	78	64	84	49	92
500-121163-9	1314V3-07-G01	103	73	67	81	57	90
LCS 500-364997/2-A	Lab Control Sample	96	75	70	92	57	107
MB 500-364997/1-A	Method Blank	87	78	67	88	55	96

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - VOC

Lab Sample ID: MB 500-365228/6
Matrix: Water
Analysis Batch: 365228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/15/16 11:22	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/15/16 11:22	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/15/16 11:22	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/15/16 11:22	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/15/16 11:22	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/15/16 11:22	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/15/16 11:22	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/15/16 11:22	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/15/16 11:22	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/15/16 11:22	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/15/16 11:22	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/15/16 11:22	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/15/16 11:22	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/15/16 11:22	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/15/16 11:22	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/15/16 11:22	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/15/16 11:22	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/15/16 11:22	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/15/16 11:22	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/15/16 11:22	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/15/16 11:22	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/15/16 11:22	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/15/16 11:22	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/15/16 11:22	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/15/16 11:22	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/15/16 11:22	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/15/16 11:22	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/15/16 11:22	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/15/16 11:22	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/15/16 11:22	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/15/16 11:22	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/15/16 11:22	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/15/16 11:22	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/15/16 11:22	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/15/16 11:22	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/15/16 11:22	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/15/16 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		71 - 120		12/15/16 11:22	1
Dibromofluoromethane	93		70 - 120		12/15/16 11:22	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		12/15/16 11:22	1
Toluene-d8 (Surr)	91		75 - 120		12/15/16 11:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - VOC (Continued)

Lab Sample ID: LCS 500-365228/4

Matrix: Water

Analysis Batch: 365228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0518		mg/L		104	37 - 141
Benzene	0.0500	0.0476		mg/L		95	70 - 125
Bromodichloromethane	0.0500	0.0471		mg/L		94	70 - 125
Bromoform	0.0500	0.0490		mg/L		98	54 - 128
Bromomethane	0.0500	0.0303		mg/L		61	40 - 150
Carbon disulfide	0.0500	0.0461		mg/L		92	68 - 125
Carbon tetrachloride	0.0500	0.0485		mg/L		97	70 - 125
Chlorobenzene	0.0500	0.0477		mg/L		95	70 - 125
Chloroethane	0.0500	0.0392		mg/L		78	60 - 139
Chloroform	0.0500	0.0476		mg/L		95	70 - 125
Chloromethane	0.0500	0.0573		mg/L		115	60 - 140
cis-1,2-Dichloroethene	0.0500	0.0484		mg/L		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0473		mg/L		95	70 - 125
Dibromochloromethane	0.0500	0.0470		mg/L		94	66 - 125
1,1-Dichloroethane	0.0500	0.0495		mg/L		99	70 - 125
1,2-Dichloroethane	0.0500	0.0517		mg/L		103	70 - 125
1,1-Dichloroethene	0.0500	0.0467		mg/L		93	70 - 125
1,2-Dichloropropane	0.0500	0.0512		mg/L		102	70 - 125
Ethylbenzene	0.0500	0.0467		mg/L		93	70 - 125
2-Hexanone	0.0500	0.0591		mg/L		118	49 - 139
Methyl Ethyl Ketone	0.0500	0.0602		mg/L		120	52 - 142
Methylene Chloride	0.0500	0.0447		mg/L		89	68 - 125
methyl isobutyl ketone	0.0500	0.0557		mg/L		111	47 - 140
Methyl tert-butyl ether	0.0500	0.0492		mg/L		98	67 - 125
Styrene	0.0500	0.0487		mg/L		97	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0494		mg/L		99	68 - 125
Tetrachloroethene	0.0500	0.0504		mg/L		101	70 - 125
Toluene	0.0500	0.0482		mg/L		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0473		mg/L		95	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0471		mg/L		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0492		mg/L		98	70 - 125
1,1,2-Trichloroethane	0.0500	0.0483		mg/L		97	70 - 125
Trichloroethene	0.0500	0.0494		mg/L		99	70 - 125
Vinyl acetate	0.0500	0.0473		mg/L		95	30 - 160
Vinyl chloride	0.0500	0.0538		mg/L		108	70 - 126
Xylenes, Total	0.100	0.0953		mg/L		95	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		71 - 120
Dibromofluoromethane	93		70 - 120
1,2-Dichloroethane-d4 (Surr)	100		71 - 127
Toluene-d8 (Surr)	91		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364313/7

Matrix: Solid

Analysis Batch: 364313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/09/16 10:33	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/09/16 10:33	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/09/16 10:33	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/09/16 10:33	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/09/16 10:33	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/09/16 10:33	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/09/16 10:33	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/09/16 10:33	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/09/16 10:33	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 10:33	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/09/16 10:33	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/09/16 10:33	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/09/16 10:33	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/09/16 10:33	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 10:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/09/16 10:33	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/09/16 10:33	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/09/16 10:33	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/09/16 10:33	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/09/16 10:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/09/16 10:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/09/16 10:33	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/09/16 10:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/09/16 10:33	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/09/16 10:33	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/09/16 10:33	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/09/16 10:33	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/09/16 10:33	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/09/16 10:33	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/09/16 10:33	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/09/16 10:33	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/09/16 10:33	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/09/16 10:33	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/09/16 10:33	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/09/16 10:33	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/09/16 10:33	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/09/16 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120		12/09/16 10:33	1
Dibromofluoromethane	106		75 - 120		12/09/16 10:33	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134		12/09/16 10:33	1
Toluene-d8 (Surr)	105		75 - 123		12/09/16 10:33	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364313/5
Matrix: Solid
Analysis Batch: 364313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0599		mg/Kg		120	40 - 148
Benzene	0.0500	0.0502		mg/Kg		100	70 - 120
Bromodichloromethane	0.0500	0.0496		mg/Kg		99	67 - 120
Bromoform	0.0500	0.0514		mg/Kg		103	50 - 129
Bromomethane	0.0500	0.0503		mg/Kg		101	50 - 134
Carbon disulfide	0.0500	0.0451		mg/Kg		90	67 - 133
Carbon tetrachloride	0.0500	0.0453		mg/Kg		91	65 - 123
Chlorobenzene	0.0500	0.0497		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0449		mg/Kg		90	40 - 150
Chloroform	0.0500	0.0494		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0643		mg/Kg		129	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0503		mg/Kg		101	68 - 120
1,1-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 125
1,2-Dichloroethane	0.0500	0.0508		mg/Kg		102	65 - 126
1,1-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 122
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	70 - 126
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 120
2-Hexanone	0.0500	0.0652		mg/Kg		130	51 - 139
2-Butanone (MEK)	0.0500	0.0621		mg/Kg		124	47 - 138
Methylene Chloride	0.0500	0.0491		mg/Kg		98	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0600		mg/Kg		120	51 - 141
Methyl tert-butyl ether	0.0500	0.0531		mg/Kg		106	70 - 121
Styrene	0.0500	0.0510		mg/Kg		102	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0548		mg/Kg		110	70 - 125
Tetrachloroethene	0.0500	0.0460		mg/Kg		92	70 - 122
Toluene	0.0500	0.0491		mg/Kg		98	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0472		mg/Kg		94	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 121
1,1,1-Trichloroethane	0.0500	0.0465		mg/Kg		93	70 - 120
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 120
Trichloroethene	0.0500	0.0479		mg/Kg		96	70 - 124
Vinyl acetate	0.0500	0.0457		mg/Kg		91	40 - 150
Vinyl chloride	0.0500	0.0566		mg/Kg		113	64 - 125
Xylenes, Total	0.100	0.0989		mg/Kg		99	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		69 - 134
Toluene-d8 (Surr)	109		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364546/6

Matrix: Solid

Analysis Batch: 364546

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/11/16 12:03	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/11/16 12:03	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/11/16 12:03	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/11/16 12:03	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/11/16 12:03	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/11/16 12:03	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/11/16 12:03	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/11/16 12:03	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/11/16 12:03	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 12:03	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/11/16 12:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/11/16 12:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/11/16 12:03	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/11/16 12:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 12:03	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/11/16 12:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 12:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/11/16 12:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/11/16 12:03	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/11/16 12:03	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/11/16 12:03	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/11/16 12:03	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/11/16 12:03	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/11/16 12:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/11/16 12:03	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/11/16 12:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/11/16 12:03	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/11/16 12:03	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/11/16 12:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/11/16 12:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/11/16 12:03	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/11/16 12:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/11/16 12:03	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/11/16 12:03	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/11/16 12:03	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/11/16 12:03	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/11/16 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120		12/11/16 12:03	1
Dibromofluoromethane	105		75 - 120		12/11/16 12:03	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134		12/11/16 12:03	1
Toluene-d8 (Surr)	105		75 - 123		12/11/16 12:03	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364546/5

Matrix: Solid

Analysis Batch: 364546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0604		mg/Kg		121	40 - 148
Benzene	0.0500	0.0529		mg/Kg		106	70 - 120
Bromodichloromethane	0.0500	0.0510		mg/Kg		102	67 - 120
Bromoform	0.0500	0.0537		mg/Kg		107	50 - 129
Bromomethane	0.0500	0.0495		mg/Kg		99	50 - 134
Carbon disulfide	0.0500	0.0523		mg/Kg		105	67 - 133
Carbon tetrachloride	0.0500	0.0492		mg/Kg		98	65 - 123
Chlorobenzene	0.0500	0.0512		mg/Kg		102	70 - 120
Chloroethane	0.0500	0.0455		mg/Kg		91	40 - 150
Chloroform	0.0500	0.0513		mg/Kg		103	70 - 120
Chloromethane	0.0500	0.0625		mg/Kg		125	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0532		mg/Kg		106	70 - 120
Dibromochloromethane	0.0500	0.0525		mg/Kg		105	68 - 120
1,1-Dichloroethane	0.0500	0.0500		mg/Kg		100	70 - 125
1,2-Dichloroethane	0.0500	0.0533		mg/Kg		107	65 - 126
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 122
1,2-Dichloropropane	0.0500	0.0546		mg/Kg		109	70 - 126
Ethylbenzene	0.0500	0.0506		mg/Kg		101	70 - 120
2-Hexanone	0.0500	0.0634		mg/Kg		127	51 - 139
2-Butanone (MEK)	0.0500	0.0582		mg/Kg		116	47 - 138
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0609		mg/Kg		122	51 - 141
Methyl tert-butyl ether	0.0500	0.0522		mg/Kg		104	70 - 121
Styrene	0.0500	0.0529		mg/Kg		106	70 - 121
1,1,2,2-Tetrachloroethane	0.0500	0.0543		mg/Kg		109	70 - 125
Tetrachloroethene	0.0500	0.0488		mg/Kg		98	70 - 122
Toluene	0.0500	0.0506		mg/Kg		101	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0530		mg/Kg		106	70 - 121
1,1,1-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 120
1,1,2-Trichloroethane	0.0500	0.0533		mg/Kg		107	70 - 120
Trichloroethene	0.0500	0.0503		mg/Kg		101	70 - 124
Vinyl acetate	0.0500	0.0434		mg/Kg		87	40 - 150
Vinyl chloride	0.0500	0.0572		mg/Kg		114	64 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		69 - 134
Toluene-d8 (Surr)	108		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364546/19
Matrix: Solid
Analysis Batch: 364546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0504		mg/Kg		101	40 - 148	18	30
Benzene	0.0500	0.0460		mg/Kg		92	70 - 120	14	30
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 120	5	30
Bromoform	0.0500	0.0469		mg/Kg		94	50 - 129	13	30
Bromomethane	0.0500	0.0448		mg/Kg		90	50 - 134	10	30
Carbon disulfide	0.0500	0.0455		mg/Kg		91	67 - 133	14	30
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	65 - 123	12	30
Chlorobenzene	0.0500	0.0448		mg/Kg		90	70 - 120	13	30
Chloroethane	0.0500	0.0401		mg/Kg		80	40 - 150	12	30
Chloroform	0.0500	0.0464		mg/Kg		93	70 - 120	10	30
Chloromethane	0.0500	0.0544		mg/Kg		109	63 - 135	14	30
cis-1,2-Dichloroethene	0.0500	0.0457		mg/Kg		91	70 - 120	13	30
cis-1,3-Dichloropropene	0.0500	0.0456		mg/Kg		91	70 - 120	15	30
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	68 - 120	12	30
1,1-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0458		mg/Kg		92	65 - 126	15	30
1,1-Dichloroethene	0.0500	0.0445		mg/Kg		89	70 - 122	15	30
1,2-Dichloropropane	0.0500	0.0503		mg/Kg		101	70 - 126	8	30
Ethylbenzene	0.0500	0.0440		mg/Kg		88	70 - 120	14	30
2-Hexanone	0.0500	0.0521		mg/Kg		104	51 - 139	20	30
2-Butanone (MEK)	0.0500	0.0469		mg/Kg		94	47 - 138	22	30
Methylene Chloride	0.0500	0.0465		mg/Kg		93	70 - 121	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0508		mg/Kg		102	51 - 141	18	30
Methyl tert-butyl ether	0.0500	0.0474		mg/Kg		95	70 - 121	10	30
Styrene	0.0500	0.0457		mg/Kg		91	70 - 121	15	30
1,1,1,2-Tetrachloroethane	0.0500	0.0454		mg/Kg		91	70 - 125	18	30
Tetrachloroethene	0.0500	0.0411		mg/Kg		82	70 - 122	17	30
Toluene	0.0500	0.0445		mg/Kg		89	70 - 121	13	30
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120	7	30
trans-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	70 - 121	17	30
1,1,1-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 120	13	30
1,1,2-Trichloroethane	0.0500	0.0468		mg/Kg		94	70 - 120	13	30
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 124	6	30
Vinyl acetate	0.0500	0.0403		mg/Kg		81	40 - 150	8	30
Vinyl chloride	0.0500	0.0476		mg/Kg		95	64 - 125	18	30
Xylenes, Total	0.100	0.0896		mg/Kg		90	70 - 123	14	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		69 - 134
Toluene-d8 (Surr)	108		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365230/6

Matrix: Solid

Analysis Batch: 365230

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/Kg			12/15/16 11:22	1
Benzene	<0.00025		0.00025	0.00015	mg/Kg			12/15/16 11:22	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/Kg			12/15/16 11:22	1
Bromoform	<0.0010		0.0010	0.00048	mg/Kg			12/15/16 11:22	1
Bromomethane	<0.0020		0.0020	0.00080	mg/Kg			12/15/16 11:22	1
Carbon disulfide	<0.0020		0.0020	0.00080	mg/Kg			12/15/16 11:22	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/Kg			12/15/16 11:22	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/Kg			12/15/16 11:22	1
Chloroethane	<0.0010		0.0010	0.00050	mg/Kg			12/15/16 11:22	1
Chloroform	<0.0010		0.0010	0.00037	mg/Kg			12/15/16 11:22	1
Chloromethane	<0.0010		0.0010	0.00032	mg/Kg			12/15/16 11:22	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/Kg			12/15/16 11:22	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/Kg			12/15/16 11:22	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/Kg			12/15/16 11:22	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/Kg			12/15/16 11:22	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/Kg			12/15/16 11:22	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/Kg			12/15/16 11:22	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/Kg			12/15/16 11:22	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/Kg			12/15/16 11:22	1
Ethylbenzene	<0.00025		0.00025	0.00018	mg/Kg			12/15/16 11:22	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/15/16 11:22	1
2-Butanone (MEK)	<0.0050		0.0050	0.0021	mg/Kg			12/15/16 11:22	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/Kg			12/15/16 11:22	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0022	mg/Kg			12/15/16 11:22	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/Kg			12/15/16 11:22	1
Styrene	<0.0010		0.0010	0.00039	mg/Kg			12/15/16 11:22	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/Kg			12/15/16 11:22	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/Kg			12/15/16 11:22	1
Toluene	<0.00025		0.00025	0.00015	mg/Kg			12/15/16 11:22	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/Kg			12/15/16 11:22	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/Kg			12/15/16 11:22	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/Kg			12/15/16 11:22	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/Kg			12/15/16 11:22	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/Kg			12/15/16 11:22	1
Vinyl acetate	<0.0020		0.0020	0.00090	mg/Kg			12/15/16 11:22	1
Vinyl chloride	<0.00050		0.00050	0.00026	mg/Kg			12/15/16 11:22	1
Xylenes, Total	<0.00050		0.00050	0.00022	mg/Kg			12/15/16 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		71 - 120		12/15/16 11:22	1
Dibromofluoromethane	93		70 - 120		12/15/16 11:22	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		12/15/16 11:22	1
Toluene-d8 (Surr)	91		75 - 120		12/15/16 11:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365230/4

Matrix: Solid

Analysis Batch: 365230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0518		mg/Kg		104	37 - 141
Benzene	0.0500	0.0476		mg/Kg		95	70 - 125
Bromodichloromethane	0.0500	0.0471		mg/Kg		94	70 - 125
Bromoform	0.0500	0.0490		mg/Kg		98	54 - 128
Bromomethane	0.0500	0.0303		mg/Kg		61	40 - 150
Carbon disulfide	0.0500	0.0461		mg/Kg		92	68 - 125
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	70 - 125
Chlorobenzene	0.0500	0.0477		mg/Kg		95	70 - 125
Chloroethane	0.0500	0.0392		mg/Kg		78	60 - 139
Chloroform	0.0500	0.0476		mg/Kg		95	70 - 125
Chloromethane	0.0500	0.0573		mg/Kg		115	60 - 140
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0473		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0470		mg/Kg		94	66 - 125
1,1-Dichloroethane	0.0500	0.0495		mg/Kg		99	70 - 125
1,2-Dichloroethane	0.0500	0.0517		mg/Kg		103	70 - 125
1,1-Dichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
1,2-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 125
Ethylbenzene	0.0500	0.0467		mg/Kg		93	70 - 125
2-Hexanone	0.0500	0.0591		mg/Kg		118	49 - 139
2-Butanone (MEK)	0.0500	0.0602		mg/Kg		120	52 - 142
Methylene Chloride	0.0500	0.0447		mg/Kg		89	68 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0557		mg/Kg		111	47 - 140
Methyl tert-butyl ether	0.0500	0.0492		mg/Kg		98	67 - 125
Styrene	0.0500	0.0487		mg/Kg		97	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0494		mg/Kg		99	68 - 125
Tetrachloroethene	0.0500	0.0504		mg/Kg		101	70 - 125
Toluene	0.0500	0.0482		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0471		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 125
1,1,2-Trichloroethane	0.0500	0.0483		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0494		mg/Kg		99	70 - 125
Vinyl acetate	0.0500	0.0473		mg/Kg		95	30 - 160
Vinyl chloride	0.0500	0.0538		mg/Kg		108	70 - 126
Xylenes, Total	0.100	0.0953		mg/Kg		95	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		71 - 120
Dibromofluoromethane	93		70 - 120
1,2-Dichloroethane-d4 (Surr)	100		71 - 127
Toluene-d8 (Surr)	91		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364997/1-A

Matrix: Water

Analysis Batch: 365040

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 13:51	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/14/16 07:11	12/14/16 13:51	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/14/16 07:11	12/14/16 13:51	1
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Methylnaphthalene	0.000205	J	0.0016	0.000052	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		12/14/16 07:11	12/14/16 13:51	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		12/14/16 07:11	12/14/16 13:51	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/14/16 07:11	12/14/16 13:51	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		12/14/16 07:11	12/14/16 13:51	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		12/14/16 07:11	12/14/16 13:51	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Nitrophenol	<0.016		0.016	0.0059	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/14/16 07:11	12/14/16 13:51	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/14/16 07:11	12/14/16 13:51	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/14/16 07:11	12/14/16 13:51	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/14/16 07:11	12/14/16 13:51	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		12/14/16 07:11	12/14/16 13:51	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		12/14/16 07:11	12/14/16 13:51	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/14/16 07:11	12/14/16 13:51	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/14/16 07:11	12/14/16 13:51	1
Diethyl phthalate	<0.0016		0.0016	0.00029	mg/L		12/14/16 07:11	12/14/16 13:51	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/14/16 07:11	12/14/16 13:51	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00058	mg/L		12/14/16 07:11	12/14/16 13:51	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/14/16 07:11	12/14/16 13:51	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		12/14/16 07:11	12/14/16 13:51	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		12/14/16 07:11	12/14/16 13:51	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		12/14/16 07:11	12/14/16 13:51	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/14/16 07:11	12/14/16 13:51	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/14/16 07:11	12/14/16 13:51	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		12/14/16 07:11	12/14/16 13:51	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/14/16 07:11	12/14/16 13:51	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		12/14/16 07:11	12/14/16 13:51	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/14/16 07:11	12/14/16 13:51	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		12/14/16 07:11	12/14/16 13:51	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/14/16 07:11	12/14/16 13:51	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364997/1-A
Matrix: Water
Analysis Batch: 365040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364997

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		12/14/16 07:11	12/14/16 13:51	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		12/14/16 07:11	12/14/16 13:51	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/14/16 07:11	12/14/16 13:51	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		12/14/16 07:11	12/14/16 13:51	1
Naphthalene	0.00227		0.00080	0.00025	mg/L		12/14/16 07:11	12/14/16 13:51	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		12/14/16 07:11	12/14/16 13:51	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		12/14/16 07:11	12/14/16 13:51	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/14/16 07:11	12/14/16 13:51	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		12/14/16 07:11	12/14/16 13:51	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/14/16 07:11	12/14/16 13:51	1
N-Nitrosodiphenylamine	<0.00080		0.00080	0.00030	mg/L		12/14/16 07:11	12/14/16 13:51	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/14/16 07:11	12/14/16 13:51	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		12/14/16 07:11	12/14/16 13:51	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/14/16 07:11	12/14/16 13:51	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		12/14/16 07:11	12/14/16 13:51	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/14/16 07:11	12/14/16 13:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	67		30 - 110	12/14/16 07:11	12/14/16 13:51	1
Nitrobenzene-d5	88		33 - 139	12/14/16 07:11	12/14/16 13:51	1
2-Fluorobiphenyl	78		30 - 123	12/14/16 07:11	12/14/16 13:51	1
2,4,6-Tribromophenol	87		30 - 150	12/14/16 07:11	12/14/16 13:51	1
Phenol-d5	55		20 - 100	12/14/16 07:11	12/14/16 13:51	1
Terphenyl-d14	96		42 - 150	12/14/16 07:11	12/14/16 13:51	1

Lab Sample ID: LCS 500-364997/2-A
Matrix: Water
Analysis Batch: 365040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364997

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3-Dichlorobenzene	0.0320	0.0171		mg/L		53	21 - 110
1,4-Dichlorobenzene	0.0320	0.0174		mg/L		54	22 - 110
1,2-Dichlorobenzene	0.0320	0.0179		mg/L		56	24 - 110
2,2'-oxybis[1-chloropropane]	0.0320	0.0227		mg/L		71	34 - 110
1,2,4-Trichlorobenzene	0.0320	0.0174		mg/L		54	25 - 110
2,4-Dimethylphenol	0.0320	0.0277		mg/L		87	42 - 115
2-Chlorophenol	0.0320	0.0273		mg/L		85	49 - 110
2,4-Dichlorophenol	0.0320	0.0239		mg/L		75	53 - 123
2-Methylphenol	0.0320	0.0296		mg/L		92	49 - 113
2,4,6-Trichlorophenol	0.0320	0.0285		mg/L		89	61 - 120
2,4,5-Trichlorophenol	0.0320	0.0303		mg/L		95	63 - 121
2-Methylnaphthalene	0.0320	0.0199		mg/L		62	32 - 110
2-Nitroaniline	0.0320	0.0322		mg/L		101	61 - 126
2-Chloronaphthalene	0.0320	0.0216		mg/L		68	38 - 110
2,6-Dinitrotoluene	0.0320	0.0308		mg/L		96	66 - 125
4-Chloro-3-methylphenol	0.0320	0.0309		mg/L		97	63 - 120
2-Nitrophenol	0.0320	0.0264		mg/L		83	51 - 120
4-Chloroaniline	0.0320	0.0307		mg/L		96	15 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364997/2-A

Matrix: Water

Analysis Batch: 365040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	0.0320	0.0308		mg/L		96	42 - 134
2,4-Dinitrophenol	0.0640	0.0571		mg/L		89	20 - 140
2,4-Dinitrotoluene	0.0320	0.0335		mg/L		105	67 - 131
Acenaphthylene	0.0320	0.0235		mg/L		73	48 - 110
Acenaphthene	0.0320	0.0239		mg/L		75	41 - 112
4-Nitrophenol	0.0640	0.0427		mg/L		67	21 - 110
4-Nitroaniline	0.0320	0.0358		mg/L		112	40 - 142
4-Bromophenyl phenyl ether	0.0320	0.0283		mg/L		88	60 - 124
Bis(2-chloroethoxy)methane	0.0320	0.0284		mg/L		89	55 - 115
Bis(2-chloroethyl)ether	0.0320	0.0238		mg/L		74	46 - 110
4-Chlorophenyl phenyl ether	0.0320	0.0260		mg/L		81	55 - 115
4,6-Dinitro-2-methylphenol	0.0640	0.0636		mg/L		99	34 - 152
Anthracene	0.0320	0.0301		mg/L		94	65 - 118
Dibenzofuran	0.0320	0.0254		mg/L		79	54 - 111
Carbazole	0.0320	0.0270		mg/L		84	71 - 132
Diethyl phthalate	0.0320	0.0320		mg/L		100	64 - 126
Dimethyl phthalate	0.0320	0.0292		mg/L		91	66 - 120
Di-n-butyl phthalate	0.0320	0.0335		mg/L		105	67 - 125
Butyl benzyl phthalate	0.0320	0.0344		mg/L		108	63 - 127
Fluoranthene	0.0320	0.0318		mg/L		99	68 - 127
Benzo[a]anthracene	0.0320	0.0330		mg/L		103	69 - 121
Fluorene	0.0320	0.0268		mg/L		84	54 - 113
Chrysene	0.0320	0.0312		mg/L		98	70 - 126
Hexachlorobenzene	0.0320	0.0287		mg/L		90	63 - 127
3,3'-Dichlorobenzidine	0.0320	0.0353		mg/L		110	57 - 145
Hexachlorobutadiene	0.0320	0.0171		mg/L		53	20 - 110
Bis(2-ethylhexyl) phthalate	0.0320	0.0353		mg/L		110	60 - 132
Hexachlorocyclopentadiene	0.0320	0.0120	J	mg/L		38	10 - 110
Di-n-octyl phthalate	0.0320	0.0354		mg/L		111	63 - 133
Hexachloroethane	0.0320	0.0173		mg/L		54	20 - 110
Benzo[b]fluoranthene	0.0320	0.0325		mg/L		102	66 - 133
Benzo[k]fluoranthene	0.0320	0.0335		mg/L		105	64 - 134
Isophorone	0.0320	0.0267		mg/L		83	55 - 120
Benzo[a]pyrene	0.0320	0.0342		mg/L		107	69 - 130
Naphthalene	0.0320	0.0231		mg/L		72	32 - 110
Indeno[1,2,3-cd]pyrene	0.0320	0.0353		mg/L		110	52 - 150
Nitrobenzene	0.0320	0.0261		mg/L		82	49 - 116
Dibenz(a,h)anthracene	0.0320	0.0380		mg/L		119	59 - 145
Benzo[g,h,i]perylene	0.0320	0.0346		mg/L		108	47 - 145
N-Nitrosodi-n-propylamine	0.0320	0.0321		mg/L		100	52 - 122
N-Nitrosodiphenylamine	0.0320	0.0315		mg/L		99	63 - 117
Pentachlorophenol	0.0640	0.0641		mg/L		100	29 - 138
Phenanthrene	0.0320	0.0303		mg/L		95	63 - 121
Phenol	0.0320	0.0194		mg/L		61	33 - 100
Pyrene	0.0320	0.0322		mg/L		101	65 - 122
3 & 4 Methylphenol	0.0320	0.0268		mg/L		84	49 - 114

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364997/2-A
Matrix: Water
Analysis Batch: 365040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364997

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	70		30 - 110
Nitrobenzene-d5	92		33 - 139
2-Fluorobiphenyl	75		30 - 123
2,4,6-Tribromophenol	96		30 - 150
Phenol-d5	57		20 - 100
Terphenyl-d14	107		42 - 150

Lab Sample ID: MB 500-365567/1-A
Matrix: Solid
Analysis Batch: 365747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/16/16 18:31	12/19/16 12:50	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365567/1-A
Matrix: Solid
Analysis Batch: 365747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Phenol	<0.17		0.17	0.074	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/16/16 18:31	12/19/16 12:50	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/16/16 18:31	12/19/16 12:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/16/16 18:31	12/19/16 12:50	1
Nitrobenzene-d5	85		33 - 124	12/16/16 18:31	12/19/16 12:50	1
2-Fluorobiphenyl	89		42 - 115	12/16/16 18:31	12/19/16 12:50	1
2,4,6-Tribromophenol	88		25 - 130	12/16/16 18:31	12/19/16 12:50	1
Phenol-d5	90		36 - 123	12/16/16 18:31	12/19/16 12:50	1
Terphenyl-d14	110		25 - 150	12/16/16 18:31	12/19/16 12:50	1

Lab Sample ID: LCS 500-365567/2-A
Matrix: Solid
Analysis Batch: 365747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.03		mg/Kg		77	56 - 110
1,4-Dichlorobenzene	1.33	1.03		mg/Kg		77	57 - 110
1,2-Dichlorobenzene	1.33	1.05		mg/Kg		79	56 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.08		mg/Kg		81	22 - 133
1,2,4-Trichlorobenzene	1.33	1.11		mg/Kg		83	60 - 116
2,4-Dimethylphenol	1.33	1.12		mg/Kg		84	50 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365567/2-A

Matrix: Solid

Analysis Batch: 365747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	1.33	1.16		mg/Kg		87	57 - 117
2,4-Dichlorophenol	1.33	1.11		mg/Kg		84	61 - 116
2-Methylphenol	1.33	1.15		mg/Kg		86	53 - 123
2,4,6-Trichlorophenol	1.33	1.19		mg/Kg		89	50 - 120
2,4,5-Trichlorophenol	1.33	1.14		mg/Kg		85	42 - 119
2-Methylnaphthalene	1.33	1.16		mg/Kg		87	55 - 120
2-Nitroaniline	1.33	1.16		mg/Kg		87	52 - 121
2-Chloronaphthalene	1.33	1.15		mg/Kg		86	57 - 112
2,6-Dinitrotoluene	1.33	1.20		mg/Kg		90	57 - 118
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	59 - 117
2-Nitrophenol	1.33	1.15		mg/Kg		86	58 - 121
4-Chloroaniline	1.33	1.62		mg/Kg		122	10 - 150
3-Nitroaniline	1.33	1.28		mg/Kg		96	20 - 144
2,4-Dinitrophenol	2.67	0.668	J	mg/Kg		25	10 - 110
2,4-Dinitrotoluene	1.33	1.17		mg/Kg		88	59 - 119
Acenaphthylene	1.33	1.16		mg/Kg		87	57 - 116
Acenaphthene	1.33	1.17		mg/Kg		88	52 - 113
4-Nitrophenol	2.67	2.04		mg/Kg		76	32 - 123
4-Nitroaniline	1.33	2.13	*	mg/Kg		159	55 - 146
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		88	61 - 124
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	59 - 116
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		82	53 - 116
4-Chlorophenyl phenyl ether	1.33	1.15		mg/Kg		86	61 - 111
4,6-Dinitro-2-methylphenol	2.67	1.02		mg/Kg		38	10 - 110
Anthracene	1.33	1.16		mg/Kg		87	57 - 118
Dibenzofuran	1.33	1.13		mg/Kg		85	59 - 110
Carbazole	1.33	1.77		mg/Kg		133	65 - 137
Diethyl phthalate	1.33	1.13		mg/Kg		85	58 - 117
Dimethyl phthalate	1.33	1.16		mg/Kg		87	60 - 112
Di-n-butyl phthalate	1.33	1.18		mg/Kg		89	61 - 123
Butyl benzyl phthalate	1.33	1.19		mg/Kg		90	61 - 115
Fluoranthene	1.33	1.17		mg/Kg		88	61 - 124
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	63 - 115
Fluorene	1.33	1.18		mg/Kg		89	56 - 115
Chrysene	1.33	1.13		mg/Kg		85	63 - 118
Hexachlorobenzene	1.33	1.16		mg/Kg		87	62 - 126
3,3'-Dichlorobenzidine	1.33	1.34		mg/Kg		100	40 - 110
Hexachlorobutadiene	1.33	1.11		mg/Kg		83	56 - 120
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		89	62 - 117
Hexachlorocyclopentadiene	1.33	0.873		mg/Kg		65	10 - 116
Di-n-octyl phthalate	1.33	1.18		mg/Kg		88	58 - 129
Hexachloroethane	1.33	1.02		mg/Kg		76	54 - 111
Benzo[b]fluoranthene	1.33	1.16		mg/Kg		87	61 - 123
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		94	59 - 125
Isophorone	1.33	1.03		mg/Kg		77	54 - 120
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	64 - 122
Naphthalene	1.33	1.12		mg/Kg		84	58 - 116
Indeno[1,2,3-cd]pyrene	1.33	1.18		mg/Kg		89	50 - 149

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365567/2-A
Matrix: Solid
Analysis Batch: 365747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrobenzene	1.33	1.18		mg/Kg		89	56 - 121
Dibenz(a,h)anthracene	1.33	1.20		mg/Kg		90	61 - 134
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	55 - 134
N-Nitrosodi-n-propylamine	1.33	1.25		mg/Kg		94	56 - 119
N-Nitrosodiphenylamine	1.33	1.33		mg/Kg		100	62 - 117
Pentachlorophenol	2.67	1.71		mg/Kg		64	12 - 116
Phenanthrene	1.33	1.16		mg/Kg		87	58 - 125
Phenol	1.33	1.01		mg/Kg		76	55 - 118
Pyrene	1.33	1.17		mg/Kg		88	60 - 115
3 & 4 Methylphenol	1.33	1.09		mg/Kg		81	55 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	89		40 - 130
Nitrobenzene-d5	83		33 - 124
2-Fluorobiphenyl	86		42 - 115
2,4,6-Tribromophenol	92		25 - 130
Phenol-d5	90		36 - 123
Terphenyl-d14	96		25 - 150

Lab Sample ID: 500-121163-2 MS
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: 1314V3-06-B10 (0-6)
Prep Type: Total/NA
Prep Batch: 365567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	<0.18		1.42	1.21		mg/Kg	☼	85	56 - 110
1,4-Dichlorobenzene	<0.18		1.42	1.26		mg/Kg	☼	88	57 - 110
1,2-Dichlorobenzene	<0.18		1.42	1.24		mg/Kg	☼	87	56 - 110
2,2'-oxybis[1-chloropropane]	<0.18		1.42	1.45		mg/Kg	☼	102	22 - 133
1,2,4-Trichlorobenzene	<0.18		1.42	1.31		mg/Kg	☼	92	60 - 116
2,4-Dimethylphenol	<0.35		1.42	1.23		mg/Kg	☼	87	50 - 120
2-Chlorophenol	<0.18		1.42	1.38		mg/Kg	☼	97	57 - 117
2,4-Dichlorophenol	<0.35		1.42	1.27		mg/Kg	☼	89	61 - 116
2-Methylphenol	<0.18		1.42	1.31		mg/Kg	☼	92	53 - 123
2,4,6-Trichlorophenol	<0.35		1.42	1.25		mg/Kg	☼	88	50 - 120
2,4,5-Trichlorophenol	<0.35		1.42	1.28		mg/Kg	☼	90	42 - 119
2-Methylnaphthalene	0.021	J	1.42	1.30		mg/Kg	☼	90	55 - 120
2-Nitroaniline	<0.18		1.42	1.31		mg/Kg	☼	92	52 - 121
2-Chloronaphthalene	<0.18		1.42	1.30		mg/Kg	☼	91	57 - 112
2,6-Dinitrotoluene	<0.18		1.42	1.30		mg/Kg	☼	92	57 - 118
4-Chloro-3-methylphenol	<0.35		1.42	1.32		mg/Kg	☼	92	59 - 117
2-Nitrophenol	<0.35		1.42	1.32		mg/Kg	☼	93	58 - 121
4-Chloroaniline	<0.71		1.42	0.866		mg/Kg	☼	61	10 - 150
3-Nitroaniline	<0.35		1.42	1.20		mg/Kg	☼	84	20 - 144
2,4-Dinitrophenol	<0.71	F1	2.85	<0.72	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.18		1.42	1.32		mg/Kg	☼	93	59 - 119
Acenaphthylene	0.023	J	1.42	1.22		mg/Kg	☼	84	57 - 116
Acenaphthene	0.0072	J	1.42	1.31		mg/Kg	☼	92	52 - 113
4-Nitrophenol	<0.71	F1	2.85	3.78	F1	mg/Kg	☼	133	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121163-2 MS

Matrix: Solid

Analysis Batch: 365886

Client Sample ID: 1314V3-06-B10 (0-6)

Prep Type: Total/NA

Prep Batch: 365567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4-Nitroaniline	<0.35	*	1.42	1.90		mg/Kg	☼	133	55 - 146
4-Bromophenyl phenyl ether	<0.18		1.42	1.33		mg/Kg	☼	93	61 - 124
Bis(2-chloroethoxy)methane	<0.18		1.42	1.29		mg/Kg	☼	90	59 - 116
Bis(2-chloroethyl)ether	<0.18		1.42	1.21		mg/Kg	☼	85	53 - 116
4-Chlorophenyl phenyl ether	<0.18		1.42	1.40		mg/Kg	☼	98	61 - 111
4,6-Dinitro-2-methylphenol	<0.71		2.85	0.355	J	mg/Kg	☼	12	10 - 110
Anthracene	0.031	J	1.42	1.33		mg/Kg	☼	91	57 - 118
Dibenzofuran	<0.18		1.42	1.38		mg/Kg	☼	97	59 - 110
Carbazole	<0.18		1.42	1.64		mg/Kg	☼	115	65 - 137
Diethyl phthalate	<0.18		1.42	1.41		mg/Kg	☼	99	58 - 117
Dimethyl phthalate	<0.18		1.42	1.28		mg/Kg	☼	90	60 - 112
Di-n-butyl phthalate	<0.18		1.42	1.33		mg/Kg	☼	93	61 - 123
Butyl benzyl phthalate	<0.18		1.42	1.55		mg/Kg	☼	109	61 - 115
Fluoranthene	0.37		1.42	1.56		mg/Kg	☼	84	61 - 124
Benzo[a]anthracene	0.15		1.42	1.40		mg/Kg	☼	88	63 - 115
Fluorene	0.0098	J	1.42	1.36		mg/Kg	☼	95	56 - 115
Chrysene	0.19		1.42	1.39		mg/Kg	☼	84	63 - 118
Hexachlorobenzene	<0.071		1.42	1.36		mg/Kg	☼	95	62 - 126
3,3'-Dichlorobenzidine	<0.18		1.42	0.593		mg/Kg	☼	42	40 - 110
Hexachlorobutadiene	<0.18		1.42	1.32		mg/Kg	☼	93	56 - 120
Bis(2-ethylhexyl) phthalate	<0.18		1.42	1.60		mg/Kg	☼	113	62 - 117
Hexachlorocyclopentadiene	<0.71	F1	1.42	<0.72	F1	mg/Kg	☼	0	10 - 116
Di-n-octyl phthalate	<0.18		1.42	1.23		mg/Kg	☼	86	58 - 129
Hexachloroethane	<0.18		1.42	1.05		mg/Kg	☼	74	54 - 111
Benzo[b]fluoranthene	0.23	F1	1.42	1.92		mg/Kg	☼	118	61 - 123
Benzo[k]fluoranthene	0.10	F1	1.42	1.89	F1	mg/Kg	☼	126	59 - 125
Isophorone	<0.18		1.42	1.16		mg/Kg	☼	82	54 - 120
Benzo[a]pyrene	0.17		1.42	1.49		mg/Kg	☼	93	64 - 122
Naphthalene	0.018	J	1.42	1.30		mg/Kg	☼	90	58 - 116
Indeno[1,2,3-cd]pyrene	0.093	F1	1.42	0.668	F1	mg/Kg	☼	40	50 - 149
Nitrobenzene	<0.035		1.42	1.29		mg/Kg	☼	91	56 - 121
Dibenz(a,h)anthracene	0.030	J F1	1.42	0.704	F1	mg/Kg	☼	47	61 - 134
Benzo[g,h,i]perylene	0.098	F1	1.42	0.538	F1	mg/Kg	☼	31	55 - 134
N-Nitrosodi-n-propylamine	<0.071		1.42	1.33		mg/Kg	☼	94	56 - 119
N-Nitrosodiphenylamine	<0.18		1.42	1.29		mg/Kg	☼	91	62 - 117
Pentachlorophenol	<0.71		2.85	1.00		mg/Kg	☼	35	12 - 116
Phenanthrene	0.23		1.42	1.47		mg/Kg	☼	87	58 - 125
Phenol	<0.18		1.42	1.43		mg/Kg	☼	101	55 - 118
Pyrene	0.34		1.42	1.80		mg/Kg	☼	102	60 - 115
3 & 4 Methylphenol	<0.18		1.42	1.36		mg/Kg	☼	95	55 - 124

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol	99		40 - 130
Nitrobenzene-d5	90		33 - 124
2-Fluorobiphenyl	88		42 - 115
2,4,6-Tribromophenol	86		25 - 130
Phenol-d5	98		36 - 123
Terphenyl-d14	120		25 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Lab Sample ID: 500-121163-2 MSD
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: 1314V3-06-B10 (0-6)
Prep Type: Total/NA
Prep Batch: 365567

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichlorobenzene	<0.18		1.41	1.23		mg/Kg	☼	87	56 - 110	1	30
1,4-Dichlorobenzene	<0.18		1.41	1.26		mg/Kg	☼	90	57 - 110	1	30
1,2-Dichlorobenzene	<0.18		1.41	1.25		mg/Kg	☼	89	56 - 110	1	30
2,2'-oxybis[1-chloropropane]	<0.18		1.41	1.41		mg/Kg	☼	100	22 - 133	3	30
1,2,4-Trichlorobenzene	<0.18		1.41	1.33		mg/Kg	☼	94	60 - 116	2	30
2,4-Dimethylphenol	<0.35		1.41	1.24		mg/Kg	☼	88	50 - 120	0	30
2-Chlorophenol	<0.18		1.41	1.37		mg/Kg	☼	97	57 - 117	0	30
2,4-Dichlorophenol	<0.35		1.41	1.28		mg/Kg	☼	91	61 - 116	1	30
2-Methylphenol	<0.18		1.41	1.31		mg/Kg	☼	93	53 - 123	0	30
2,4,6-Trichlorophenol	<0.35		1.41	1.27		mg/Kg	☼	90	50 - 120	2	30
2,4,5-Trichlorophenol	<0.35		1.41	1.29		mg/Kg	☼	92	42 - 119	1	30
2-Methylnaphthalene	0.021	J	1.41	1.31		mg/Kg	☼	91	55 - 120	1	30
2-Nitroaniline	<0.18		1.41	1.31		mg/Kg	☼	92	52 - 121	1	30
2-Chloronaphthalene	<0.18		1.41	1.30		mg/Kg	☼	92	57 - 112	1	30
2,6-Dinitrotoluene	<0.18		1.41	1.28		mg/Kg	☼	90	57 - 118	2	30
4-Chloro-3-methylphenol	<0.35		1.41	1.32		mg/Kg	☼	93	59 - 117	0	30
2-Nitrophenol	<0.35		1.41	1.32		mg/Kg	☼	94	58 - 121	0	30
4-Chloroaniline	<0.71		1.41	0.817		mg/Kg	☼	58	10 - 150	6	30
3-Nitroaniline	<0.35		1.41	1.05		mg/Kg	☼	74	20 - 144	13	30
2,4-Dinitrophenol	<0.71	F1	2.82	<0.71	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.18		1.41	1.33		mg/Kg	☼	94	59 - 119	0	30
Acenaphthylene	0.023	J	1.41	1.22		mg/Kg	☼	85	57 - 116	0	30
Acenaphthene	0.0072	J	1.41	1.29		mg/Kg	☼	91	52 - 113	1	30
4-Nitrophenol	<0.71	F1	2.82	3.76	F1	mg/Kg	☼	133	32 - 123	1	30
4-Nitroaniline	<0.35	*	1.41	1.76		mg/Kg	☼	125	55 - 146	8	30
4-Bromophenyl phenyl ether	<0.18		1.41	1.28		mg/Kg	☼	91	61 - 124	4	30
Bis(2-chloroethoxy)methane	<0.18		1.41	1.32		mg/Kg	☼	93	59 - 116	2	30
Bis(2-chloroethyl)ether	<0.18		1.41	1.25		mg/Kg	☼	88	53 - 116	3	30
4-Chlorophenyl phenyl ether	<0.18		1.41	1.36		mg/Kg	☼	96	61 - 111	3	30
4,6-Dinitro-2-methylphenol	<0.71		2.82	0.442	J	mg/Kg	☼	16	10 - 110	22	30
Anthracene	0.031	J	1.41	1.32		mg/Kg	☼	91	57 - 118	1	30
Dibenzofuran	<0.18		1.41	1.36		mg/Kg	☼	96	59 - 110	1	30
Carbazole	<0.18		1.41	1.65		mg/Kg	☼	117	65 - 137	1	30
Diethyl phthalate	<0.18		1.41	1.36		mg/Kg	☼	97	58 - 117	3	30
Dimethyl phthalate	<0.18		1.41	1.29		mg/Kg	☼	91	60 - 112	0	30
Di-n-butyl phthalate	<0.18		1.41	1.31		mg/Kg	☼	93	61 - 123	2	30
Butyl benzyl phthalate	<0.18		1.41	1.53		mg/Kg	☼	108	61 - 115	1	30
Fluoranthene	0.37		1.41	1.67		mg/Kg	☼	92	61 - 124	7	30
Benzo[a]anthracene	0.15		1.41	1.46		mg/Kg	☼	93	63 - 115	4	30
Fluorene	0.0098	J	1.41	1.32		mg/Kg	☼	93	56 - 115	3	30
Chrysene	0.19		1.41	1.45		mg/Kg	☼	89	63 - 118	4	30
Hexachlorobenzene	<0.071		1.41	1.32		mg/Kg	☼	94	62 - 126	3	30
3,3'-Dichlorobenzidine	<0.18		1.41	0.702		mg/Kg	☼	50	40 - 110	17	30
Hexachlorobutadiene	<0.18		1.41	1.35		mg/Kg	☼	96	56 - 120	2	30
Bis(2-ethylhexyl) phthalate	<0.18		1.41	1.59		mg/Kg	☼	113	62 - 117	1	30
Hexachlorocyclopentadiene	<0.71	F1	1.41	<0.71	F1	mg/Kg	☼	0	10 - 116	NC	30
Di-n-octyl phthalate	<0.18		1.41	1.21		mg/Kg	☼	86	58 - 129	2	30
Hexachloroethane	<0.18		1.41	1.09		mg/Kg	☼	77	54 - 111	4	30
Benzo[b]fluoranthene	0.23	F1	1.41	1.99	F1	mg/Kg	☼	125	61 - 123	4	30
Benzo[k]fluoranthene	0.10	F1	1.41	1.95	F1	mg/Kg	☼	131	59 - 125	3	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121163-2 MSD

Matrix: Solid

Analysis Batch: 365886

Client Sample ID: 1314V3-06-B10 (0-6)

Prep Type: Total/NA

Prep Batch: 365567

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Isophorone	<0.18		1.41	1.20		mg/Kg	☼	85	54 - 120	3	30
Benzo[a]pyrene	0.17		1.41	1.53		mg/Kg	☼	96	64 - 122	3	30
Naphthalene	0.018	J	1.41	1.32		mg/Kg	☼	92	58 - 116	1	30
Indeno[1,2,3-cd]pyrene	0.093	F1	1.41	0.718	F1	mg/Kg	☼	44	50 - 149	7	30
Nitrobenzene	<0.035		1.41	1.33		mg/Kg	☼	94	56 - 121	3	30
Dibenz(a,h)anthracene	0.030	J F1	1.41	0.734	F1	mg/Kg	☼	50	61 - 134	4	30
Benzo[g,h,i]perylene	0.098	F1	1.41	0.593	F1	mg/Kg	☼	35	55 - 134	10	30
N-Nitrosodi-n-propylamine	<0.071		1.41	1.36		mg/Kg	☼	96	56 - 119	2	30
N-Nitrosodiphenylamine	<0.18		1.41	1.26		mg/Kg	☼	89	62 - 117	3	30
Pentachlorophenol	<0.71		2.82	1.19		mg/Kg	☼	42	12 - 116	17	30
Phenanthrene	0.23		1.41	1.52		mg/Kg	☼	92	58 - 125	4	30
Phenol	<0.18		1.41	1.43		mg/Kg	☼	101	55 - 118	0	30
Pyrene	0.34		1.41	1.92		mg/Kg	☼	111	60 - 115	6	30
3 & 4 Methylphenol	<0.18		1.41	1.41		mg/Kg	☼	100	55 - 124	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	101		40 - 130
Nitrobenzene-d5	92		33 - 124
2-Fluorobiphenyl	87		42 - 115
2,4,6-Tribromophenol	80		25 - 130
Phenol-d5	98		36 - 123
Terphenyl-d14	119		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-364513/1-A

Matrix: Solid

Analysis Batch: 364622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364513

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Barium	<1.0		1.0	0.18	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Boron	<5.0		5.0	0.70	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Calcium	<20		20	6.4	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Chromium	0.416	J	1.0	0.17	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Copper	<1.0		1.0	0.22	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Iron	<20		20	7.7	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Lead	<0.50		0.50	0.25	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Magnesium	<10		10	4.1	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Potassium	<50		50	8.2	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Silver	<0.50		0.50	0.12	mg/Kg		12/10/16 10:04	12/10/16 17:42	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-364513/1-A
Matrix: Solid
Analysis Batch: 364622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<100		100	13	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/10/16 10:04	12/10/16 17:42	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/10/16 10:04	12/10/16 17:42	1

Lab Sample ID: LCS 500-364513/2-A
Matrix: Solid
Analysis Batch: 364622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.71		mg/Kg		87	80 - 120
Barium	200	187		mg/Kg		94	80 - 120
Beryllium	5.00	4.67		mg/Kg		93	80 - 120
Boron	100	82.1		mg/Kg		82	80 - 120
Cadmium	5.00	4.52		mg/Kg		90	80 - 120
Calcium	1000	943		mg/Kg		94	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	46.6		mg/Kg		93	80 - 120
Copper	25.0	23.9		mg/Kg		95	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.09		mg/Kg		91	80 - 120
Magnesium	1000	905		mg/Kg		91	80 - 120
Manganese	50.0	46.9		mg/Kg		94	80 - 120
Nickel	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	905		mg/Kg		91	80 - 120
Selenium	10.0	8.60		mg/Kg		86	80 - 120
Silver	5.00	4.39		mg/Kg		88	80 - 120
Sodium	1000	918		mg/Kg		92	80 - 120
Thallium	10.0	8.44		mg/Kg		84	80 - 120
Vanadium	50.0	46.9		mg/Kg		94	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-364616/2-A
Matrix: Solid
Analysis Batch: 365237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.545		mg/L		109	80 - 120

Lab Sample ID: LCS 500-364618/2-A
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.487	J	mg/L		97	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-364618/2-A
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Boron	1.00	0.931		mg/L		93	80 - 120
Cadmium	0.0500	0.0480		mg/L		96	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.481		mg/L		96	80 - 120
Iron	1.00	0.995		mg/L		99	80 - 120
Lead	0.100	0.0972		mg/L		97	80 - 120
Manganese	0.500	0.512		mg/L		102	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.0883		mg/L		88	80 - 120
Silver	0.0500	0.0482		mg/L		96	80 - 120
Zinc	0.500	0.485	J	mg/L		97	80 - 120

Lab Sample ID: LB 500-364421/1-B
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364618

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 16:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/12/16 09:08	12/13/16 16:05	1
Boron	<0.50		0.50	0.050	mg/L		12/12/16 09:08	12/13/16 16:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:08	12/13/16 16:05	1
Chromium	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 16:05	1
Cobalt	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 16:05	1
Iron	<0.40		0.40	0.20	mg/L		12/12/16 09:08	12/13/16 16:05	1
Lead	0.00781		0.0075	0.0075	mg/L		12/12/16 09:08	12/13/16 16:05	1
Manganese	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 16:05	1
Nickel	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 16:05	1
Selenium	<0.050		0.050	0.020	mg/L		12/12/16 09:08	12/13/16 16:05	1
Silver	<0.025		0.025	0.010	mg/L		12/12/16 09:08	12/13/16 16:05	1
Zinc	0.0331	J	0.50	0.020	mg/L		12/12/16 09:08	12/13/16 16:05	1

Lab Sample ID: 500-121163-13 MS
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: TCLP
Prep Batch: 364618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.39	J	0.500	0.957		mg/L		113	50 - 150
Beryllium	<0.0040		0.0500	0.0560		mg/L		112	50 - 150
Boron	0.15	J	1.00	1.24		mg/L		108	50 - 150
Cadmium	<0.0050		0.0500	0.0535		mg/L		107	50 - 150
Chromium	<0.025		0.200	0.216		mg/L		108	50 - 150
Cobalt	0.048		0.500	0.568		mg/L		104	50 - 150
Iron	<0.40		1.00	1.16		mg/L		116	50 - 150
Lead	<0.0075		0.100	0.108		mg/L		108	50 - 150
Manganese	10		0.500	11.5	4	mg/L		298	50 - 150
Nickel	0.032		0.500	0.547		mg/L		103	50 - 150
Selenium	<0.050		0.100	0.120		mg/L		120	50 - 150
Silver	<0.025		0.0500	0.0584		mg/L		117	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121163-13 MS
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: TCLP
Prep Batch: 364618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	0.038	J B	0.500	0.580		mg/L		108	50 - 150

Lab Sample ID: 500-121163-13 DU
Matrix: Solid
Analysis Batch: 364787

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: TCLP
Prep Batch: 364618

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.39	J	0.389	J	mg/L		0.5	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.15	J	0.149	J	mg/L		3	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.048		0.0480		mg/L		0.8	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	10		9.99		mg/L		0.6	20
Nickel	0.032		0.0316		mg/L		1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.038	J B	0.0394	J	mg/L		3	20

Lab Sample ID: LB 500-364394/1-B
Matrix: Solid
Analysis Batch: 365237

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 364616

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/12/16 09:04	12/15/16 01:19	1
Iron	<0.20		0.20	0.20	mg/L		12/12/16 09:04	12/15/16 01:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/12/16 09:04	12/15/16 01:19	1
Manganese	<0.025		0.025	0.010	mg/L		12/12/16 09:04	12/15/16 01:19	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-364618/2-A
Matrix: Solid
Analysis Batch: 364837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.449		mg/L		90	80 - 120
Thallium	0.100	0.0947		mg/L		95	80 - 120

Lab Sample ID: MB 500-364351/1-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025	0.00084	mg/L		12/09/16 08:58	12/13/16 14:39	1
Cadmium	<0.00050		0.00050	0.00019	mg/L		12/09/16 08:58	12/13/16 14:39	1
Chromium	<0.0050		0.0050	0.00061	mg/L		12/09/16 08:58	12/13/16 14:39	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-364351/1-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.0010		0.0010	0.00019	mg/L		12/09/16 08:58	12/13/16 14:39	1
Iron	<0.10		0.10	0.026	mg/L		12/09/16 08:58	12/13/16 14:39	1
Lead	<0.00050		0.00050	0.00014	mg/L		12/09/16 08:58	12/13/16 14:39	1
Magnesium	<0.20		0.20	0.083	mg/L		12/09/16 08:58	12/13/16 14:39	1
Manganese	<0.0025		0.0025	0.00099	mg/L		12/09/16 08:58	12/13/16 14:39	1
Nickel	<0.0020		0.0020	0.00053	mg/L		12/09/16 08:58	12/13/16 14:39	1
Potassium	<0.50		0.50	0.19	mg/L		12/09/16 08:58	12/13/16 14:39	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/09/16 08:58	12/13/16 14:39	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 08:58	12/13/16 14:39	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		12/09/16 08:58	12/13/16 14:39	1
Zinc	<0.020		0.020	0.0046	mg/L		12/09/16 08:58	12/13/16 14:39	1

Lab Sample ID: MB 500-364351/1-A
Matrix: Water
Analysis Batch: 365351

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010	0.00044	mg/L		12/09/16 08:58	12/15/16 12:02	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		12/09/16 08:58	12/15/16 12:02	1
Calcium	<0.20		0.20	0.11	mg/L		12/09/16 08:58	12/15/16 12:02	1
Copper	<0.0020		0.0020	0.00096	mg/L		12/09/16 08:58	12/15/16 12:02	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/09/16 08:58	12/15/16 12:02	1
Sodium	<0.20		0.20	0.088	mg/L		12/09/16 08:58	12/15/16 12:02	1

Lab Sample ID: MB 500-364351/1-A
Matrix: Water
Analysis Batch: 365522

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050	0.025	mg/L		12/09/16 08:58	12/16/16 11:45	1

Lab Sample ID: LCS 500-364351/2-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Barium	0.500	0.588		mg/L		118	80 - 120	
Cadmium	0.0500	0.0572		mg/L		114	80 - 120	
Chromium	0.200	0.215		mg/L		108	80 - 120	
Cobalt	0.500	0.525		mg/L		105	80 - 120	
Iron	1.00	1.10		mg/L		110	80 - 120	
Lead	0.100	0.110		mg/L		110	80 - 120	
Magnesium	10.0	11.1		mg/L		111	80 - 120	
Manganese	0.500	0.541		mg/L		108	80 - 120	
Nickel	0.500	0.527		mg/L		105	80 - 120	
Potassium	10.0	11.4		mg/L		114	80 - 120	
Silver	0.0500	0.0573		mg/L		115	80 - 120	
Thallium	0.100	0.110		mg/L		110	80 - 120	
Vanadium	0.500	0.528		mg/L		106	80 - 120	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-364351/2-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Zinc	0.500	0.595		mg/L		119	80 - 120

Lab Sample ID: LCS 500-364351/2-A
Matrix: Water
Analysis Batch: 365351

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Calcium	10.0	9.13		mg/L		91	80 - 120
Copper	0.250	0.271		mg/L		108	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Sodium	10.0	10.8		mg/L		108	80 - 120

Lab Sample ID: LCS 500-364351/2-A
Matrix: Water
Analysis Batch: 365522

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LB 500-364421/1-B
Matrix: Solid
Analysis Batch: 364837

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364618

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/12/16 09:08	12/12/16 20:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/12/16 09:08	12/12/16 20:57	1

Lab Sample ID: 500-121163-13 MS
Matrix: Solid
Analysis Batch: 364837

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: TCLP
Prep Batch: 364618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.476		mg/L		95	50 - 150
Thallium	<0.0020	^	0.100	0.101	^	mg/L		101	50 - 150

Lab Sample ID: 500-121163-13 DU
Matrix: Solid
Analysis Batch: 364837

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: TCLP
Prep Batch: 364618

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020	^	<0.0020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 7470A - Mercury

Lab Sample ID: MB 500-364393/12-A
Matrix: Water
Analysis Batch: 364705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/09/16 13:00	12/12/16 10:34	1

Lab Sample ID: LCS 500-364393/13-A
Matrix: Water
Analysis Batch: 364705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00184		mg/L		92	80 - 120

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-364659/12-A
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 09:58	1

Lab Sample ID: LCS 500-364659/13-A
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00186		mg/L		93	80 - 120

Lab Sample ID: LB 500-364421/1-C
Matrix: Solid
Analysis Batch: 364926

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 364659

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/12/16 12:00	12/13/16 10:01	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-364430/12-A
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/09/16 15:45	12/12/16 11:41	1

Lab Sample ID: LCS 500-364430/13-A
Matrix: Solid
Analysis Batch: 364704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.151		mg/Kg		90	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Method: 9045D - pH

Lab Sample ID: 500-121163-13 DU
Matrix: Solid
Analysis Batch: 364725

Client Sample ID: 1314V3-07-B04 (5-11)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		8.2		SU		0.1	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:03	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 17:36	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:21	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:05		
					(End)	12/12/16 13:08		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-01-B10 (0-6)

Lab Sample ID: 500-121163-1

Date Collected: 12/07/16 08:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 15:11	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 13:21	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 18:51	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:22	MJD	TAL CHI

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:10	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 17:42	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	364837	12/12/16 21:25	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725	(Start) 12/12/16 13:08 (End) 12/12/16 13:10	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-06-B10 (0-6)

Lab Sample ID: 500-121163-2

Date Collected: 12/07/16 10:10

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 15:36	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 13:49	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 18:56	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:24	MJD	TAL CHI

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:17	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 17:58	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:42	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725	(Start) 12/12/16 13:10 (End) 12/12/16 13:13	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B10 (6-11)

Lab Sample ID: 500-121163-3

Date Collected: 12/07/16 10:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 16:02	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 14:17	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 18:59	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:27	MJD	TAL CHI

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:05	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:46	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:13		
					(End)	12/12/16 13:16		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-06-B11 (0-6)

Lab Sample ID: 500-121163-4

Date Collected: 12/07/16 10:40

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 16:27	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 14:45	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 19:03	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:29	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:24	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:12	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:50	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:28	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:16		
					(End)	12/12/16 13:19		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-06-B11 (6-10.7)

Lab Sample ID: 500-121163-5

Date Collected: 12/07/16 10:45

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 16:53	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 15:41	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 19:07	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:32	MJD	TAL CHI

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Date Collected: 12/07/16 11:05

Matrix: Water

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365228	12/15/16 12:16	TCT	TAL CHI
Total/NA	Prep	3510C			364997	12/14/16 07:11	JJH	TAL CHI
Total/NA	Analysis	8270D		1	365040	12/14/16 16:12	AJD	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	365026	12/13/16 16:18	PFK	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	365351	12/15/16 12:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-06-G10

Lab Sample ID: 500-121163-6

Date Collected: 12/07/16 11:05

Matrix: Water

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	365522	12/16/16 11:54	FXG	TAL CHI
Total/NA	Prep	7470A			364393	12/09/16 13:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	364705	12/12/16 10:37	MJD	TAL CHI

Client Sample ID: 1314V3-00-TB02

Lab Sample ID: 500-121163-7

Date Collected: 12/07/16 00:00

Matrix: Water

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365228	12/15/16 12:43	TCT	TAL CHI

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:18	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:54	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725	(Start) 12/12/16 13:19 (End) 12/12/16 13:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/07/16 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364546	12/11/16 12:50	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		5	366210	12/21/16 22:22	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 19:11	PJ1	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		10	364622	12/10/16 19:48	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B01 (0-6)

Lab Sample ID: 500-121163-8

Date Collected: 12/07/16 13:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 65.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:34	MJD	TAL CHI

Client Sample ID: 1314V3-07-G01

Lab Sample ID: 500-121163-9

Date Collected: 12/07/16 14:00

Matrix: Water

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365228	12/15/16 13:10	TCT	TAL CHI
Total/NA	Prep	3510C			364997	12/14/16 07:11	JJH	TAL CHI
Total/NA	Analysis	8270D		1	365040	12/14/16 16:40	AJD	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	365026	12/13/16 16:21	PFK	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	365351	12/15/16 12:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			364351	12/09/16 08:58	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	365522	12/16/16 12:30	FXG	TAL CHI
Total/NA	Prep	7470A			364393	12/09/16 13:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	364705	12/12/16 10:38	MJD	TAL CHI

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:30	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:25	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 21:59	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:31	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:21		
					(End)	12/12/16 13:24		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B02 (0-5)

Lab Sample ID: 500-121163-10

Date Collected: 12/07/16 14:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364401	12/07/16 14:50	BDW	TAL CHI
Total/NA	Analysis	8260B		500	365230	12/15/16 13:36	TCT	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		10	366210	12/21/16 22:50	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		5	364622	12/10/16 19:16	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:36	MJD	TAL CHI

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:37	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:32	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 22:03	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725	(Start) 12/12/16 13:24 (End) 12/12/16 13:27	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 17:43	BDW	TAL CHI
Total/NA	Prep	3541	DL		365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	366210	12/21/16 23:18	GES	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 16:37	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		5	364622	12/10/16 19:20	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B03 (0-5.5)

Lab Sample ID: 500-121163-11

Date Collected: 12/07/16 15:15

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 12:38	MJD	TAL CHI

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 14:44	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 18:39	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 22:07	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:27		
					(End)	12/12/16 13:30		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-07-B04 (0-5)

Lab Sample ID: 500-121163-12

Date Collected: 12/07/16 15:50

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 18:08	BDW	TAL CHI
Total/NA	Prep	3541	DL		365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	366210	12/21/16 23:46	GES	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 17:04	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		5	364622	12/10/16 19:38	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 13:07	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364394	12/09/16 11:20	RMP	TAL CHI
SPLP East	Prep	3010A			364616	12/12/16 09:04	JEF	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/15/16 15:06	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6010B		1	364787	12/13/16 19:01	PJ1	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	3010A			364618	12/12/16 09:08	JEF	TAL CHI
TCLP	Analysis	6020A		1	364837	12/12/16 22:11	PFK	TAL CHI
TCLP	Leach	1311			364421	12/09/16 13:40	RMP	TAL CHI
TCLP	Prep	7470A			364659	12/12/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	364926	12/13/16 10:38	MJD	TAL CHI
Total/NA	Analysis	9045D		1	364725		SMO	TAL CHI
					(Start)	12/12/16 13:30		
					(End)	12/12/16 13:32		
Total/NA	Analysis	Moisture		1	364349	12/09/16 08:59	LWN	TAL CHI

Client Sample ID: 1314V3-07-B04 (5-11)

Lab Sample ID: 500-121163-13

Date Collected: 12/07/16 15:55

Matrix: Solid

Date Received: 12/08/16 09:00

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364285	12/08/16 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364313	12/09/16 18:34	BDW	TAL CHI
Total/NA	Prep	3541			365567	12/16/16 18:31	JP1	TAL CHI
Total/NA	Analysis	8270D		1	365886	12/20/16 12:53	GES	TAL CHI
Total/NA	Prep	3050B			364513	12/10/16 10:04	JNH	TAL CHI
Total/NA	Analysis	6010B		1	364622	12/10/16 19:42	PJ1	TAL CHI
Total/NA	Prep	7471B			364430	12/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	364704	12/12/16 13:09	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121163-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-121163 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121163
Chain of Custody Number: EE46-25
Page _____ of _____
Temperature °C of Cooler: 4.1

Client		Client Project #		Preservative		Parameter					Preservative Key		
EE		1004006-0046.01									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers	Matrix	VOC	SVOC	Total PAH Metals	TCU/SPH/THC Metals	Pb/Cd/Cr, S.I.d.			Comments
ITM		50012744											
Project Location/State		Lab RM		Sampling									
Rock Island County, IL		D. Wright		Date	Time								
Lab ID	MS/MSD	Sample ID											
1		1314V3-01-B10(0-6)	12-7-16	0840	2	S	X	X	X	X	X		64C08

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12/7/16</u>	Time: <u>12:00</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CAT</u>	Date: <u>12/8/16</u>	Time: <u>0900</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-121163
 Chain of Custody Number: EBV6-26
 Page _____ of _____
 Temperature °C of Cooler: _____

Client EE		Client Project # 1009006-0046-41		Preservative							Preservative Key		
Project Name I 74		Lab Project # 50012744		Parameter							1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State Rock Island County, IL		Lab Project # 50012744											
Sampler S. Cooper		Lab PM D Wright											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Vac	Svac	Total Trace Metals	Trace Metals	Pb/Cd/Cr Solids		Comments
			Date	Time									
2		1314V3-06-B10 (0-6)	12-7-16	1010	2 S		X	X	X	X	X		6908
3		1314V3-06-B10 (6-11)	12-7-16	1015	2 S		X	X	X	X	X		
4		1314V3-06-B11 (0-6)	12-7-16	1040	2 S		X	X	X	X	X		
5		1314V3-06-B11 (6-10.7)	12-7-16	1045	2 S		X	X	X	X	X		
6		1314V3-06-B10	12-7-16	1105	6 W		X	X	X				
7		1314V3-00-T1302	-	-	2 W		X						
12-7-16													

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company EE	Date 12/11/16	Time 1700	Received By <i>[Signature]</i>	Company FA-CORP	Date 12/8/16	Time 0900	Lab Courier FedEx
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:
 Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

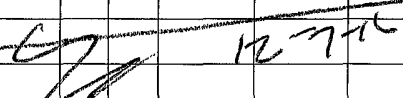
2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

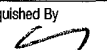
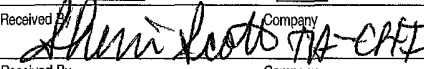
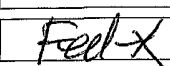
Chain of Custody Record

Lab Job #: 500-12/16/3
 Chain of Custody Number: ES46-27
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
EE		1009008-0076-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers	Matrix	Voc	Svoc	Total TAC	metals	Turbidity	TAC	pH/gal
E-74		50012744										
Project Location/State		Lab PM		Sampling								Comments
Beaufort Island County, TN		D. Wright		Date	Time							
Lab ID	MS/MSD	Sample ID										
8		1314V3-07-B01 (0-6)	12-7-16	1350	2 S	X	X	X	X	X		
9		1314V3-07-601	12-7-16	1400	2 W	X	X	X				6408
10		1314V3-07-B02 (0-5)	12-7-16	1450	2 S	X	X	X	X	X		
11		1314V3-07-B03 (0-5.5)	12-7-16	1515	2 S	X	X	X	X	X		
12		1314V3-07-B04 (0-5)	12-7-16	1530	2 S	X	X	X	X	X		
13		1314V3-07-B04 (5-11)	12-7-16	1555	2 S	X	X	X	X	X		
												

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: 	Company: CE	Date: 12-7-16	Time: 1700	Received By: 	Company: TA-CAT	Date: 12/8/16	Time: 0900	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: 
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

ORIGIN ID: JOTA (312) 578-9243
MR. SCOTT COOPER
ECOLOGY & ENVIRONMENT
33 WEST MONROE
STE. 550
CHICAGO, IL 60603
UNITED STATES US

SHIP
DATE

5 10:30
3243
12.08

RTN 519
ST



5403/CBB1/72F

TO **SAMPLE LOGIN**
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466

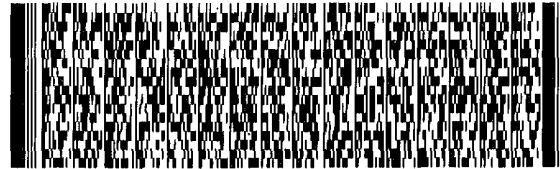
(708) 534-5200

REF:

DEPT:

500-121163 Waybill

RMA: ||| ||| |||



FedEx
Express



AR 08/20/91 01/91

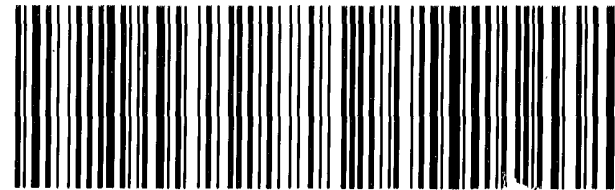
FedEx

TRK# 6514 8429 3243
0221

THU - 08 DEC 10:30A
PRIORITY OVERNIGHT

XH JOTA

60466
IL-US ORD



EXP 11/17

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121163-1

Login Number: 121163

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121261-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/22/2016 4:38:13 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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- 14
- 15



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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Job ID: 500-121261-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121261-1

Comments

No additional comments.

Receipt

The samples were received on 12/9/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.8° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery and/or Internal standard responses were outside of acceptance limits for the following samples: 1314V3-06-B01 (0-8) (500-121261-13). Compounds associated with these internal standards have been flagged with a "" in the data package. Re-analysis was performed twice with Internal standard responses and surrogate recoveries outside QC limits. The best data were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 364764 had 1 analyte outside control limits: 3,3'-Dichlorobenzidine. These results have been reported and qualified. 1314V3-02-G01 (500-121261-7) and 1314V3-02-G01D (500-121261-8)

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 365830 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified. (LCS 500-365830/2-A)

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121261-E-19-P MS) and (500-121261-E-19-Q MS)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-364764 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 2,4-Dimethylphenol and N-Nitrosodiphenylamine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: 1314V3-06-B01 (0-8) (500-121261-13). The reagent lot number used was: 153166.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-365091 and 500-365242 contained Lead above the reporting limit (RL). The samples 1314V3-01-B36 (0-8) (500-121261-1), 1314V3-01-B36 (16-24) (500-121261-3), 1314V3-01-B36 (24-28) (500-121261-4), 1314V3-02-B01 (0-5) (500-121261-5), 1314V3-02-B02 (0-6) (500-121261-10) and 1314V3-02-B02 (6-12)D (500-121261-12) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of the samples were not performed.

Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: 1314V3-06-B01 (0-8) (500-121261-13) and 1314V3-06-B02 (0-8) (500-121261-14). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The low level check standard (CCVL) recovery associated with batch 500-365454, at line 37, recovered above the upper

Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Job ID: 500-121261-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

control limit for Beryllium at 146% recovery. The samples associated with this CCVL were below the RL for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0052	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0092	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.60	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	0.80	J	2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	4000	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	7.9		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	140		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	880		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	370		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.050	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.041		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0086	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.058		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.054		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.029	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0087	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16) (Continued)

Lab Sample ID: 500-121261-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	5.3		0.57	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	48		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.50		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Boron	3.2		2.9	0.40	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.31		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Calcium	21000	B	11	3.7	mg/Kg	1		☼	6010B	Total/NA
Chromium	13	B	0.57	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.5		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	13		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	8.7		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	12000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Manganese	600		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	14		0.57	0.16	mg/Kg	1		☼	6010B	Total/NA
Potassium	1200		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	92		57	7.6	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.0		0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	32		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Barium	1.1		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.093	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.069		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.59		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.033	B	0.017	0.0088	mg/Kg	1		☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.30	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	3.4		0.56	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	52		0.56	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.39		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Boron	2.8		2.8	0.39	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.24		0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Calcium	38000	B	11	3.6	mg/Kg	1		☼	6010B	Total/NA
Chromium	9.7	B	0.56	0.096	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.4		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	11		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	12000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	6.5		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	18000		5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Manganese	370		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	15		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24) (Continued)

Lab Sample ID: 500-121261-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	95		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.57		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031	B	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	25		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	3.2		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.5	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	6.7		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	7400		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	4.3		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.2		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.5		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	18		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023	B	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.027	0.012	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (0-5) (Continued)

Lab Sample ID: 500-121261-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		0.71	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.71	0.13	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.28	0.061	mg/Kg	1	☼	6010B	Total/NA
Boron	25		3.5	0.49	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.14	0.041	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	140	46	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.71	0.12	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.35	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	6.7		0.71	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	7700		14	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	2.5		0.35	0.18	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6000		7.1	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	830		0.71	0.14	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.71	0.19	mg/Kg	1	☼	6010B	Total/NA
Potassium	380		35	5.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		71	9.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.71	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.35	0.10	mg/Kg	1	☼	6010B	Total/NA
Zinc	22		1.4	0.45	mg/Kg	1	☼	6010B	Total/NA
Barium	0.087	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.099		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.016	J B	0.022	0.012	mg/Kg	1	☼	7471B	Total/NA
pH	11.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.020	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0070	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.039		0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.055		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.44		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.14		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.53		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Pyrene - DL	0.82		0.19	0.039	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.30		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	0.39		0.19	0.053	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.39		0.19	0.042	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.11	J	0.19	0.058	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.31		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.17	J	0.19	0.063	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.33	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10) (Continued)

Lab Sample ID: 500-121261-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	140000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3900		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	600		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Silver	0.078	J	0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.96		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.080	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.0		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	9.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.12	B	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	9.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.00067	J	0.0010	0.00022	mg/L	1		8260B	Total/NA
Diethyl phthalate	0.00048	J	0.0016	0.00029	mg/L	1		8270D	Total/NA
Arsenic	0.0074		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.18		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.00072	J ^	0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Boron	0.49		0.050	0.025	mg/L	1		6020A	Total Recoverable
Cadmium	0.0012		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	85		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.017		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0044		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.029		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	15	B	0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.51		0.00050	0.00014	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01 (Continued)

Lab Sample ID: 500-121261-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	0.39		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.013		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	9.6		0.50	0.19	mg/L	1		6020A	Total Recoverable
Silver	0.00011	J	0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	21		0.20	0.088	mg/L	1		6020A	Total Recoverable
Vanadium	0.015		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.31	B	0.020	0.0046	mg/L	1		6020A	Total Recoverable
Mercury	0.00012	J	0.00020	0.00011	mg/L	1		7470A	Total/NA

Client Sample ID: 1314V3-02-G01D

Lab Sample ID: 500-121261-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	0.00041	J	0.0016	0.00029	mg/L	1		8270D	Total/NA
Phenanthrene	0.00032	J	0.00080	0.00024	mg/L	1		8270D	Total/NA
Arsenic	0.0068		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.17		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.00071	J ^	0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Boron	0.46		0.050	0.025	mg/L	1		6020A	Total Recoverable
Cadmium	0.0011		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	83		0.20	0.11	mg/L	1		6020A	Total Recoverable
Chromium	0.012		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0039		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.028		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	14	B	0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.48		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	11		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	0.35		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.012		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	9.1		0.50	0.19	mg/L	1		6020A	Total Recoverable
Silver	0.00010	J	0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	20		0.20	0.088	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01D (Continued)

Lab Sample ID: 500-121261-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.015		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.27	B	0.020	0.0046	mg/L	1		6020A	Total Recoverable

Client Sample ID: 1314V3-00-TB03

Lab Sample ID: 500-121261-9

No Detections.

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0085	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.028	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.048		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.40	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	1.5	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	35	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8200		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	61		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	780		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	73		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.76		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6) (Continued)

Lab Sample ID: 500-121261-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035	B	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0077	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0084	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0089	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0091	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	230		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	740		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.61		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0074		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.063		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.38	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D (Continued)

Lab Sample ID: 500-121261-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.52	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036	B	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.041		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.032	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.018	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.018	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.053		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.37		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.33		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.22		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.25		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.084		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.029	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.074		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	2.8	J	5.5	1.1	mg/Kg	5	☼	6010B	Total/NA
Arsenic	14		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	31		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8) (Continued)

Lab Sample ID: 500-121261-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.27	J	1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Boron	7.1	J	14	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.42	J	0.55	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	4500	B	55	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	94	B	2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	10		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA
Copper	66		2.8	0.60	mg/Kg	5	☼	6010B	Total/NA
Iron	95000		55	21	mg/Kg	5	☼	6010B	Total/NA
Lead	110		1.4	0.69	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1100		28	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	850		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	310		2.8	0.75	mg/Kg	5	☼	6010B	Total/NA
Potassium	370		140	23	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.2	J	2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Sodium	85	J	280	37	mg/Kg	5	☼	6010B	Total/NA
Thallium	2.8		2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Vanadium	34		1.4	0.40	mg/Kg	5	☼	6010B	Total/NA
Zinc	84		5.5	1.8	mg/Kg	5	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.086		0.025	0.010	mg/L	1		6010B	TCLP
Iron	86		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	9.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.39	J	0.50	0.020	mg/L	1		6010B	TCLP
Iron	11		0.40	0.20	mg/L	1		6010B	SPLP East
Manganese	0.059		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027	B	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.026	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.075	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.022	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.011	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.060		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.1		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.0		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.0		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.96		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.50		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.3		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.27		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8) (Continued)

Lab Sample ID: 500-121261-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.11		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.28		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.3	J	5.5	1.1	mg/Kg	5	☼	6010B	Total/NA
Arsenic	7.7		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	62		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.58	J	1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Boron	11	J	14	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.59		0.55	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	13000	B	55	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	27	B	2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	5.8		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA
Copper	29		2.8	0.60	mg/Kg	5	☼	6010B	Total/NA
Iron	37000		55	21	mg/Kg	5	☼	6010B	Total/NA
Lead	82		1.4	0.69	mg/Kg	5	☼	6010B	Total/NA
Magnesium	2200		28	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	660		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	49		2.8	0.75	mg/Kg	5	☼	6010B	Total/NA
Potassium	600		140	23	mg/Kg	5	☼	6010B	Total/NA
Sodium	140	J	280	36	mg/Kg	5	☼	6010B	Total/NA
Thallium	1.5	J	2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Vanadium	23		1.4	0.40	mg/Kg	5	☼	6010B	Total/NA
Zinc	160		5.5	1.7	mg/Kg	5	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.077	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0053		0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.49	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.43	B	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.028	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4) (Continued)

Lab Sample ID: 500-121261-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	13	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	6.9		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	480		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.98		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J B	0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.020	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.011	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.031	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.032	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.40		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.092		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.79		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.76		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.40		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.38		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.67		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.51		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.054		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	5.6		2.8	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.44		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1) (Continued)

Lab Sample ID: 500-121261-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.0		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	73		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	580		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.069	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.12	B	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.013	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.010	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.025	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.023	J	0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.35		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.074		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.68		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.70		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.35		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.34		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.59		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.78		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.42		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.046		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	5.1		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D (Continued)

Lab Sample ID: 500-121261-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	17		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	65		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.84		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.091	B	0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0088	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.075	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.016	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.25		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.045		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.49		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.57		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.44		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.29		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.095		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	4.1		2.8	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.44		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	83000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1) (Continued)

Lab Sample ID: 500-121261-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.93		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.86		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.97		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.25	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.13	B	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.053		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.055		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.062		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.074		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.039		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.3	F1	2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	8900	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	26	F2	0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J F1	0.54	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1) (Continued)

Lab Sample ID: 500-121261-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	290		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	45	F1	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.90		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.048	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.065	B	0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method	Method Description	Protocol	Laboratory
8260B	VOC	SW846	TAL CHI
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7470A	Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121261-1	1314V3-01-B36 (0-8)	Solid	12/08/16 14:30	12/09/16 10:00
500-121261-2	1314V3-01-B36 (8-16)	Solid	12/08/16 14:35	12/09/16 10:00
500-121261-3	1314V3-01-B36 (16-24)	Solid	12/08/16 14:40	12/09/16 10:00
500-121261-4	1314V3-01-B36 (24-28)	Solid	12/08/16 15:10	12/09/16 10:00
500-121261-5	1314V3-02-B01 (0-5)	Solid	12/08/16 08:40	12/09/16 10:00
500-121261-6	1314V3-02-B01 (5-10)	Solid	12/08/16 08:45	12/09/16 10:00
500-121261-7	1314V3-02-G01	Water	12/08/16 09:15	12/09/16 10:00
500-121261-8	1314V3-02-G01D	Water	12/08/16 09:15	12/09/16 10:00
500-121261-9	1314V3-00-TB03	Water	12/08/16 00:00	12/09/16 10:00
500-121261-10	1314V3-02-B02 (0-6)	Solid	12/08/16 10:45	12/09/16 10:00
500-121261-11	1314V3-02-B02 (6-12)	Solid	12/08/16 10:50	12/09/16 10:00
500-121261-12	1314V3-02-B02 (6-12)D	Solid	12/08/16 10:50	12/09/16 10:00
500-121261-13	1314V3-06-B01 (0-8)	Solid	12/08/16 11:20	12/09/16 10:00
500-121261-14	1314V3-06-B02 (0-8)	Solid	12/08/16 11:50	12/09/16 10:00
500-121261-15	1314V3-06-B03 (0-4)	Solid	12/08/16 12:20	12/09/16 10:00
500-121261-16	1314V3-11-B03 (0-1)	Solid	12/08/16 16:15	12/09/16 10:00
500-121261-17	1314V3-11-B03 (0-1)D	Solid	12/08/16 16:15	12/09/16 10:00
500-121261-18	1314V3-11-B02 (0-1)	Solid	12/08/16 16:35	12/09/16 10:00
500-121261-19	1314V3-11-B01 (0-1)	Solid	12/08/16 16:55	12/09/16 10:00

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Vinyl acetate	<0.0047		0.0047	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	12/09/16 17:53	12/11/16 12:48	1
Dibromofluoromethane	102		75 - 120	12/09/16 17:53	12/11/16 12:48	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/09/16 17:53	12/11/16 12:48	1
Toluene-d8 (Surr)	101		75 - 123	12/09/16 17:53	12/11/16 12:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Benzo[a]anthracene	0.0052	J	0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Benzo[b]fluoranthene	0.0092	J	0.037	0.0081	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/19/16 16:12	12/20/16 12:43	1
Phenol-d5	106		36 - 123	12/19/16 16:12	12/20/16 12:43	1
Nitrobenzene-d5	88		33 - 124	12/19/16 16:12	12/20/16 12:43	1
2-Fluorobiphenyl	87		42 - 115	12/19/16 16:12	12/20/16 12:43	1
2,4,6-Tribromophenol	67		25 - 130	12/19/16 16:12	12/20/16 12:43	1
Terphenyl-d14	104		25 - 150	12/19/16 16:12	12/20/16 12:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Arsenic	4.5		0.53	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Barium	31		0.53	0.096	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Beryllium	0.52		0.21	0.046	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Boron	0.80	J	2.6	0.37	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Cadmium	0.18		0.11	0.031	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Calcium	4000	B	11	3.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Chromium	12	B	0.53	0.091	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Cobalt	5.6		0.26	0.060	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Copper	13		0.53	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Iron	15000		11	4.1	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Lead	7.9		0.26	0.13	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Magnesium	2600		5.3	2.1	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Manganese	140		0.53	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Nickel	12		0.53	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Potassium	880		26	4.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Selenium	0.27	J	0.53	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Sodium	370		53	7.0	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Thallium	0.54		0.53	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Vanadium	15		0.26	0.077	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1
Zinc	30		1.1	0.33	mg/Kg	☼	12/14/16 15:50	12/16/16 21:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:35	1
Boron	0.050	J	0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0036	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Cobalt	0.037		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Manganese	6.7		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Nickel	0.039		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:35	1
Zinc	0.025	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.73		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 04:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.018	0.0096	mg/Kg	☼	12/14/16 16:00	12/15/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/14/16 15:25	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/09/16 17:53	12/11/16 13:13	1
Dibromofluoromethane	96		75 - 120	12/09/16 17:53	12/11/16 13:13	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	12/09/16 17:53	12/11/16 13:13	1
Toluene-d8 (Surr)	102		75 - 123	12/09/16 17:53	12/11/16 13:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Phenanthrene	0.041		0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Anthracene	0.0086	J	0.038	0.0064	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Fluoranthene	0.058		0.038	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Pyrene	0.054		0.038	0.0077	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Benzo[a]anthracene	0.029	J	0.038	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.038	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Benzo[b]fluoranthene	0.036	J	0.038	0.0083	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Benzo[a]pyrene	0.029	J	0.038	0.0075	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Dibenz(a,h)anthracene	0.0087	J	0.038	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130	12/19/16 16:12	12/20/16 13:09	1
Phenol-d5	83		36 - 123	12/19/16 16:12	12/20/16 13:09	1
Nitrobenzene-d5	82		33 - 124	12/19/16 16:12	12/20/16 13:09	1
2-Fluorobiphenyl	78		42 - 115	12/19/16 16:12	12/20/16 13:09	1
2,4,6-Tribromophenol	74		25 - 130	12/19/16 16:12	12/20/16 13:09	1
Terphenyl-d14	96		25 - 150	12/19/16 16:12	12/20/16 13:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.1	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Arsenic	5.3		0.57	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Barium	48		0.57	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Boron	3.2		2.9	0.40	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Cadmium	0.31		0.11	0.033	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Calcium	21000	B	11	3.7	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Chromium	13	B	0.57	0.099	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Cobalt	6.5		0.29	0.065	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Copper	13		0.57	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Iron	16000		11	4.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Lead	8.7		0.29	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Magnesium	12000		5.7	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Manganese	600		0.57	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Nickel	14		0.57	0.16	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Potassium	1200		29	4.7	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Sodium	92		57	7.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Thallium	1.0		0.57	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Vanadium	24		0.29	0.084	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1
Zinc	32		1.1	0.36	mg/Kg	☼	12/14/16 15:50	12/16/16 21:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:39	1
Boron	0.093	J	0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0038	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Cobalt	0.027		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Lead	0.011		0.0075	0.0075	mg/L	-	12/19/16 08:53	12/19/16 22:10	1
Manganese	10		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Nickel	0.030		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:39	1
Zinc	0.13	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:39	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.069		0.0075	0.0075	mg/L	-	12/14/16 14:09	12/16/16 05:06	1
Manganese	0.59		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 05:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.017	0.0088	mg/Kg	☼	12/14/16 16:00	12/15/16 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU	-		12/14/16 15:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/09/16 17:53	12/11/16 13:38	1
Dibromofluoromethane	99		75 - 120	12/09/16 17:53	12/11/16 13:38	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/09/16 17:53	12/11/16 13:38	1
Toluene-d8 (Surr)	101		75 - 123	12/09/16 17:53	12/11/16 13:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/19/16 16:12	12/20/16 13:34	1
Phenol-d5	104		36 - 123	12/19/16 16:12	12/20/16 13:34	1
Nitrobenzene-d5	87		33 - 124	12/19/16 16:12	12/20/16 13:34	1
2-Fluorobiphenyl	90		42 - 115	12/19/16 16:12	12/20/16 13:34	1
2,4,6-Tribromophenol	67		25 - 130	12/19/16 16:12	12/20/16 13:34	1
Terphenyl-d14	107		25 - 150	12/19/16 16:12	12/20/16 13:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Arsenic	3.4		0.56	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Barium	52		0.56	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Beryllium	0.39		0.22	0.048	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Boron	2.8		2.8	0.39	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Cadmium	0.24		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Calcium	38000	B	11	3.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Chromium	9.7	B	0.56	0.096	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Cobalt	7.4		0.28	0.063	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Copper	11		0.56	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Iron	12000		11	4.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Lead	6.5		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Magnesium	18000		5.6	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Manganese	370		0.56	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Nickel	15		0.56	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Potassium	1000		28	4.5	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Sodium	95		56	7.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Thallium	0.68		0.56	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Vanadium	14		0.28	0.081	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1
Zinc	25		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 21:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:44	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Cobalt	0.015	J	0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Manganese	3.4		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Nickel	0.022	J	0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:44	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.57		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 05:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.019	0.0098	mg/Kg	☼	12/14/16 16:00	12/15/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/14/16 15:33	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/09/16 17:53	12/12/16 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120	12/09/16 17:53	12/12/16 15:31	1
Dibromofluoromethane	97		75 - 120	12/09/16 17:53	12/12/16 15:31	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134	12/09/16 17:53	12/12/16 15:31	1
Toluene-d8 (Surr)	105		75 - 123	12/09/16 17:53	12/12/16 15:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130	12/19/16 16:12	12/20/16 13:59	1
Phenol-d5	91		36 - 123	12/19/16 16:12	12/20/16 13:59	1
Nitrobenzene-d5	85		33 - 124	12/19/16 16:12	12/20/16 13:59	1
2-Fluorobiphenyl	83		42 - 115	12/19/16 16:12	12/20/16 13:59	1
2,4,6-Tribromophenol	61		25 - 130	12/19/16 16:12	12/20/16 13:59	1
Terphenyl-d14	96		25 - 150	12/19/16 16:12	12/20/16 13:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Arsenic	3.3		0.57	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Barium	25		0.57	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Beryllium	0.23		0.23	0.049	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Boron	3.2		2.8	0.40	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Calcium	47000	B	11	3.7	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Chromium	5.5	B	0.57	0.098	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Cobalt	2.9		0.28	0.064	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Copper	6.7		0.57	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Iron	7400		11	4.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Lead	4.3		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Magnesium	25000		5.7	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Manganese	250		0.57	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Nickel	7.2		0.57	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Potassium	650		28	4.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Sodium	200		57	7.5	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Thallium	0.42	J	0.57	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Vanadium	9.5		0.28	0.083	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1
Zinc	18		1.1	0.36	mg/Kg	☼	12/14/16 15:50	12/16/16 21:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:49	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Cobalt	0.015	J	0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Manganese	3.4		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Nickel	0.023	J	0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:49	1
Zinc	0.066	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 18:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	B	0.019	0.010	mg/Kg	☼	12/14/16 16:00	12/15/16 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/14/16 15:36	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 68.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.027	0.012	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Benzene	<0.0027		0.0027	0.00068	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Bromodichloromethane	<0.0027		0.0027	0.00054	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Bromoform	<0.0027		0.0027	0.00078	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Bromomethane	<0.0067		0.0067	0.0025	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
2-Butanone (MEK)	<0.0067		0.0067	0.0030	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Carbon disulfide	<0.0067		0.0067	0.0014	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Carbon tetrachloride	<0.0027		0.0027	0.00077	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Chlorobenzene	<0.0027		0.0027	0.00098	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Chloroethane	<0.0067		0.0067	0.0020	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Chloroform	<0.0027		0.0027	0.00092	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Chloromethane	<0.0067		0.0067	0.0027	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
cis-1,2-Dichloroethene	<0.0027		0.0027	0.00074	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
cis-1,3-Dichloropropene	<0.0027		0.0027	0.00080	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Dibromochloromethane	<0.0027		0.0027	0.00087	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,1-Dichloroethane	<0.0027		0.0027	0.00091	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,2-Dichloroethane	<0.0067		0.0067	0.0021	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,1-Dichloroethene	<0.0027		0.0027	0.00092	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,2-Dichloropropane	<0.0027		0.0027	0.00069	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,3-Dichloropropane, Total	<0.0027		0.0027	0.00093	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Ethylbenzene	<0.0027		0.0027	0.0013	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
2-Hexanone	<0.0067		0.0067	0.0021	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Methylene Chloride	<0.0067		0.0067	0.0026	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
4-Methyl-2-pentanone (MIBK)	<0.0067		0.0067	0.0020	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Methyl tert-butyl ether	<0.0027		0.0027	0.00078	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Styrene	<0.0027		0.0027	0.00080	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,1,2,2-Tetrachloroethane	<0.0027		0.0027	0.00085	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Tetrachloroethene	<0.0027		0.0027	0.00091	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Toluene	<0.0027		0.0027	0.00067	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
trans-1,2-Dichloroethene	<0.0027		0.0027	0.0012	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
trans-1,3-Dichloropropene	<0.0027		0.0027	0.00093	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,1,1-Trichloroethane	<0.0027		0.0027	0.00089	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
1,1,2-Trichloroethane	<0.0027		0.0027	0.0011	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Trichloroethene	<0.0027		0.0027	0.00090	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Vinyl acetate	<0.0067		0.0067	0.0023	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Vinyl chloride	<0.0027		0.0027	0.0012	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1
Xylenes, Total	<0.0053		0.0053	0.00085	mg/Kg	☼	12/08/16 08:40	12/12/16 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 120	12/08/16 08:40	12/12/16 15:56	1
Dibromofluoromethane	87		75 - 120	12/08/16 08:40	12/12/16 15:56	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134	12/08/16 08:40	12/12/16 15:56	1
Toluene-d8 (Surr)	104		75 - 123	12/08/16 08:40	12/12/16 15:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.24		0.24	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Bis(2-chloroethyl)ether	<0.24		0.24	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
1,3-Dichlorobenzene	<0.24		0.24	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
1,4-Dichlorobenzene	<0.24		0.24	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 68.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.24		0.24	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Methylphenol	<0.24		0.24	0.077	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,2'-oxybis[1-chloropropane]	<0.24		0.24	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
N-Nitrosodi-n-propylamine	<0.097		0.097	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Hexachloroethane	<0.24		0.24	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Chlorophenol	<0.24		0.24	0.082	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Nitrobenzene	<0.048		0.048	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Bis(2-chloroethoxy)methane	<0.24		0.24	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
1,2,4-Trichlorobenzene	<0.24		0.24	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Isophorone	<0.24		0.24	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4-Dimethylphenol	<0.48		0.48	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Hexachlorobutadiene	<0.24		0.24	0.076	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Naphthalene	<0.048		0.048	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4-Dichlorophenol	<0.48		0.48	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Chloroaniline	<0.97		0.97	0.23	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4,6-Trichlorophenol	<0.48		0.48	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4,5-Trichlorophenol	<0.48		0.48	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Hexachlorocyclopentadiene	<0.97		0.97	0.28	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Methylnaphthalene	<0.097		0.097	0.0089	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Nitroaniline	<0.24		0.24	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Chloronaphthalene	<0.24		0.24	0.053	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Chloro-3-methylphenol	<0.48		0.48	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,6-Dinitrotoluene	<0.24		0.24	0.095	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2-Nitrophenol	<0.48		0.48	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
3-Nitroaniline	<0.48		0.48	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Dimethyl phthalate	<0.24		0.24	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4-Dinitrophenol	<0.97	*	0.97	0.85	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Acenaphthylene	<0.048		0.048	0.0064	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
2,4-Dinitrotoluene	<0.24		0.24	0.077	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Acenaphthene	<0.048		0.048	0.0087	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Dibenzofuran	<0.24		0.24	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Nitrophenol	<0.97		0.97	0.46	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Fluorene	<0.048		0.048	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Nitroaniline	<0.48		0.48	0.20	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Bromophenyl phenyl ether	<0.24		0.24	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Hexachlorobenzene	<0.097		0.097	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Diethyl phthalate	<0.24		0.24	0.082	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4-Chlorophenyl phenyl ether	<0.24		0.24	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Pentachlorophenol	<0.97		0.97	0.77	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
N-Nitrosodiphenylamine	<0.24		0.24	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
4,6-Dinitro-2-methylphenol	<0.97		0.97	0.39	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Phenanthrene	<0.048		0.048	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Anthracene	<0.048		0.048	0.0081	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Carbazole	<0.24		0.24	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Di-n-butyl phthalate	<0.24		0.24	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Fluoranthene	<0.048		0.048	0.0089	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Pyrene	<0.048		0.048	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Butyl benzyl phthalate	<0.24		0.24	0.092	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Benzo[a]anthracene	<0.048		0.048	0.0065	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 68.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.048		0.048	0.013	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
3,3'-Dichlorobenzidine	<0.24		0.24	0.067	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Bis(2-ethylhexyl) phthalate	<0.24		0.24	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Di-n-octyl phthalate	<0.24		0.24	0.079	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Benzo[b]fluoranthene	<0.048		0.048	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Benzo[k]fluoranthene	<0.048		0.048	0.014	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Benzo[a]pyrene	<0.048		0.048	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Dibenz(a,h)anthracene	<0.048		0.048	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
Benzo[g,h,i]perylene	<0.048		0.048	0.016	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1
3 & 4 Methylphenol	<0.24		0.24	0.080	mg/Kg	☼	12/19/16 16:12	12/20/16 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		40 - 130	12/19/16 16:12	12/20/16 14:24	1
Phenol-d5	89		36 - 123	12/19/16 16:12	12/20/16 14:24	1
Nitrobenzene-d5	78		33 - 124	12/19/16 16:12	12/20/16 14:24	1
2-Fluorobiphenyl	76		42 - 115	12/19/16 16:12	12/20/16 14:24	1
2,4,6-Tribromophenol	46		25 - 130	12/19/16 16:12	12/20/16 14:24	1
Terphenyl-d14	90		25 - 150	12/19/16 16:12	12/20/16 14:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.29	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Arsenic	2.1		0.71	0.33	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Barium	38		0.71	0.13	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Beryllium	0.57		0.28	0.061	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Boron	25		3.5	0.49	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Cadmium	0.14		0.14	0.041	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Calcium	110000	B	140	46	mg/Kg	☼	12/14/16 15:50	12/18/16 20:31	10
Chromium	15	B	0.71	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Cobalt	5.1		0.35	0.080	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Copper	6.7		0.71	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Iron	7700		14	5.5	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Lead	2.5		0.35	0.18	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Magnesium	6000		7.1	2.9	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Manganese	830		0.71	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Nickel	14		0.71	0.19	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Potassium	380		35	5.8	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Selenium	<0.71		0.71	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Silver	<0.35		0.35	0.083	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Sodium	100		71	9.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Thallium	1.2		0.71	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Vanadium	18		0.35	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1
Zinc	22		1.4	0.45	mg/Kg	☼	12/14/16 15:50	12/16/16 21:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.087	J	0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:54	1
Boron	0.12	J	0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 68.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Chromium	0.099		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Manganese	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/15/16 23:54	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/15/16 08:57	12/15/16 23:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J B	0.022	0.012	mg/Kg	☼	12/14/16 16:00	12/15/16 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.6		0.2	0.2	SU	-		12/14/16 15:39	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/09/16 17:53	12/11/16 14:52	1
Dibromofluoromethane	97		75 - 120	12/09/16 17:53	12/11/16 14:52	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/09/16 17:53	12/11/16 14:52	1
Toluene-d8 (Surr)	102		75 - 123	12/09/16 17:53	12/11/16 14:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Naphthalene	0.020	J	0.039	0.0060	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Methylnaphthalene	0.014	J	0.079	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Acenaphthylene	0.0070	J	0.039	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Acenaphthene	0.039		0.039	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Fluorene	0.055		0.039	0.0055	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Phenanthrene	0.44		0.039	0.0055	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Anthracene	0.14		0.039	0.0066	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Fluoranthene	0.53		0.039	0.0073	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Indeno[1,2,3-cd]pyrene	0.10		0.039	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130				12/19/16 16:12	12/20/16 21:06	1
Phenol-d5	89		36 - 123				12/19/16 16:12	12/20/16 21:06	1
Nitrobenzene-d5	76		33 - 124				12/19/16 16:12	12/20/16 21:06	1
2-Fluorobiphenyl	75		42 - 115				12/19/16 16:12	12/20/16 21:06	1
2,4,6-Tribromophenol	68		25 - 130				12/19/16 16:12	12/20/16 21:06	1
Terphenyl-d14	144		25 - 150				12/19/16 16:12	12/20/16 21:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.82		0.19	0.039	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Benzo[a]anthracene	0.30		0.19	0.026	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Chrysene	0.39		0.19	0.053	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Benzo[b]fluoranthene	0.39		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Benzo[k]fluoranthene	0.11	J	0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Benzo[a]pyrene	0.31		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5
Benzo[g,h,i]perylene	0.17	J	0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/22/16 02:06	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Arsenic	4.2		0.59	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Barium	61		0.59	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Beryllium	0.43		0.24	0.051	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Boron	4.3		2.9	0.41	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Cadmium	0.31		0.12	0.034	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Calcium	140000	B	120	38	mg/Kg	☼	12/14/16 15:50	12/18/16 20:35	10
Chromium	11	B	0.59	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Cobalt	8.6		0.29	0.067	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Copper	13		0.59	0.13	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Iron	14000		12	4.5	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Lead	31		0.29	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Magnesium	3900		5.9	2.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Manganese	600		0.59	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Nickel	19		0.59	0.16	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Potassium	1300		29	4.8	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Silver	0.078	J	0.29	0.069	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Sodium	170		59	7.8	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Thallium	0.80		0.59	0.29	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Vanadium	18		0.29	0.086	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1
Zinc	35		1.2	0.37	mg/Kg	☼	12/14/16 15:50	12/16/16 21:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.9

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:59	1
Boron	0.080	J	0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 08:57	12/15/16 23:59	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:59	1
Cobalt	0.033		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:59	1
Iron	2.0		0.40	0.20	mg/L		12/15/16 08:57	12/15/16 23:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 22:14	1
Manganese	9.6		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:59	1
Nickel	0.047		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:59	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/15/16 23:59	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:59	1
Zinc	0.11	J	0.50	0.020	mg/L		12/15/16 08:57	12/15/16 23:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 05:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 18:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 18:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	B	0.018	0.0094	mg/Kg	☼	12/14/16 16:00	12/15/16 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.8		0.2	0.2	SU			12/14/16 15:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/16/16 17:37	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/16/16 17:37	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/16/16 17:37	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/16/16 17:37	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/16/16 17:37	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/16/16 17:37	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/16/16 17:37	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/16/16 17:37	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/16/16 17:37	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/16/16 17:37	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/16/16 17:37	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/16/16 17:37	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/16/16 17:37	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/16/16 17:37	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/16/16 17:37	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/16/16 17:37	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/16/16 17:37	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/16/16 17:37	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/16/16 17:37	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/16/16 17:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/16/16 17:37	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/16/16 17:37	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/16/16 17:37	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/16/16 17:37	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/16/16 17:37	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/16/16 17:37	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/16/16 17:37	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/16/16 17:37	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/16/16 17:37	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/16/16 17:37	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/16/16 17:37	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/16/16 17:37	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/16/16 17:37	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/16/16 17:37	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/16/16 17:37	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/16/16 17:37	1
Xylenes, Total	0.00067	J	0.0010	0.00022	mg/L			12/16/16 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120		12/16/16 17:37	1
Dibromofluoromethane	91		70 - 120		12/16/16 17:37	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 127		12/16/16 17:37	1
Toluene-d8 (Surr)	91		75 - 120		12/16/16 17:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/16/16 05:20	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/12/16 21:45	12/16/16 05:20	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/16/16 05:20	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/16/16 05:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00031	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4,5-Trichlorophenol	<0.0081		0.0081	0.0021	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4,6-Trichlorophenol	<0.0041		0.0041	0.00058	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4-Dichlorophenol	<0.0081		0.0081	0.0021	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4-Dimethylphenol	<0.0081	*	0.0081	0.0015	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4-Dinitrophenol	<0.016		0.016	0.0070	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,4-Dinitrotoluene	<0.00081		0.00081	0.00020	mg/L		12/12/16 21:45	12/16/16 05:20	1
2,6-Dinitrotoluene	<0.00081		0.00081	0.000060	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Chlorophenol	<0.0041		0.0041	0.00046	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Methylnaphthalene	<0.0016		0.0016	0.000053	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Methylphenol	<0.0016		0.0016	0.00025	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Nitroaniline	<0.0041		0.0041	0.0010	mg/L		12/12/16 21:45	12/16/16 05:20	1
2-Nitrophenol	<0.0081		0.0081	0.0020	mg/L		12/12/16 21:45	12/16/16 05:20	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00037	mg/L		12/12/16 21:45	12/16/16 05:20	1
3,3'-Dichlorobenzidine	<0.0041	*	0.0041	0.0014	mg/L		12/12/16 21:45	12/16/16 05:20	1
3-Nitroaniline	<0.0081		0.0081	0.0015	mg/L		12/12/16 21:45	12/16/16 05:20	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0048	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Bromophenyl phenyl ether	<0.0041		0.0041	0.00044	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Chloro-3-methylphenol	<0.0081		0.0081	0.0019	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Chloroaniline	<0.0081		0.0081	0.0016	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Chlorophenyl phenyl ether	<0.0041		0.0041	0.00052	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Nitroaniline	<0.0081		0.0081	0.0014	mg/L		12/12/16 21:45	12/16/16 05:20	1
4-Nitrophenol	<0.016		0.016	0.0060	mg/L		12/12/16 21:45	12/16/16 05:20	1
Acenaphthene	<0.00081		0.00081	0.00025	mg/L		12/12/16 21:45	12/16/16 05:20	1
Acenaphthylene	<0.00081		0.00081	0.00022	mg/L		12/12/16 21:45	12/16/16 05:20	1
Anthracene	<0.00081		0.00081	0.00027	mg/L		12/12/16 21:45	12/16/16 05:20	1
Benzo[a]anthracene	<0.00013		0.00013	0.000046	mg/L		12/12/16 21:45	12/16/16 05:20	1
Benzo[a]pyrene	<0.00016		0.00016	0.000081	mg/L		12/12/16 21:45	12/16/16 05:20	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000066	mg/L		12/12/16 21:45	12/16/16 05:20	1
Benzo[g,h,i]perylene	<0.00081		0.00081	0.00031	mg/L		12/12/16 21:45	12/16/16 05:20	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000052	mg/L		12/12/16 21:45	12/16/16 05:20	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/12/16 21:45	12/16/16 05:20	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00024	mg/L		12/12/16 21:45	12/16/16 05:20	1
Bis(2-ethylhexyl) phthalate	<0.0081		0.0081	0.0014	mg/L		12/12/16 21:45	12/16/16 05:20	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00039	mg/L		12/12/16 21:45	12/16/16 05:20	1
Carbazole	<0.0041		0.0041	0.00029	mg/L		12/12/16 21:45	12/16/16 05:20	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/12/16 21:45	12/16/16 05:20	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/12/16 21:45	12/16/16 05:20	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/12/16 21:45	12/16/16 05:20	1
Diethyl phthalate	0.00048	J	0.0016	0.00029	mg/L		12/12/16 21:45	12/16/16 05:20	1
Dimethyl phthalate	<0.0016		0.0016	0.00026	mg/L		12/12/16 21:45	12/16/16 05:20	1
Di-n-butyl phthalate	<0.0041		0.0041	0.00059	mg/L		12/12/16 21:45	12/16/16 05:20	1
Di-n-octyl phthalate	<0.0081		0.0081	0.00086	mg/L		12/12/16 21:45	12/16/16 05:20	1
Fluoranthene	<0.00081		0.00081	0.00037	mg/L		12/12/16 21:45	12/16/16 05:20	1
Fluorene	<0.00081		0.00081	0.00020	mg/L		12/12/16 21:45	12/16/16 05:20	1
Hexachlorobenzene	<0.00041		0.00041	0.000065	mg/L		12/12/16 21:45	12/16/16 05:20	1
Hexachlorobutadiene	<0.0041		0.0041	0.00042	mg/L		12/12/16 21:45	12/16/16 05:20	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0052	mg/L		12/12/16 21:45	12/16/16 05:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0041		0.0041	0.00049	mg/L		12/12/16 21:45	12/16/16 05:20	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000061	mg/L		12/12/16 21:45	12/16/16 05:20	1
Isophorone	<0.0016		0.0016	0.00031	mg/L		12/12/16 21:45	12/16/16 05:20	1
Naphthalene	<0.00081		0.00081	0.00025	mg/L		12/12/16 21:45	12/16/16 05:20	1
Nitrobenzene	<0.00081		0.00081	0.00037	mg/L		12/12/16 21:45	12/16/16 05:20	1
N-Nitrosodi-n-propylamine	<0.00041		0.00041	0.00013	mg/L		12/12/16 21:45	12/16/16 05:20	1
N-Nitrosodiphenylamine	<0.00081	*	0.00081	0.00030	mg/L		12/12/16 21:45	12/16/16 05:20	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/12/16 21:45	12/16/16 05:20	1
Phenanthrene	<0.00081		0.00081	0.00025	mg/L		12/12/16 21:45	12/16/16 05:20	1
Phenol	<0.0041		0.0041	0.00055	mg/L		12/12/16 21:45	12/16/16 05:20	1
Pyrene	<0.00081		0.00081	0.00035	mg/L		12/12/16 21:45	12/16/16 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		30 - 150	12/12/16 21:45	12/16/16 05:20	1
2-Fluorobiphenyl	62		30 - 123	12/12/16 21:45	12/16/16 05:20	1
2-Fluorophenol	48		30 - 110	12/12/16 21:45	12/16/16 05:20	1
Nitrobenzene-d5	62		33 - 139	12/12/16 21:45	12/16/16 05:20	1
Phenol-d5	34		20 - 100	12/12/16 21:45	12/16/16 05:20	1
Terphenyl-d14	106		42 - 150	12/12/16 21:45	12/16/16 05:20	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0074		0.0010	0.00044	mg/L		12/09/16 14:56	12/12/16 17:30	1
Barium	0.18		0.0025	0.00084	mg/L		12/09/16 14:56	12/12/16 17:30	1
Beryllium	0.00072	J ^	0.0010	0.00024	mg/L		12/09/16 14:56	12/15/16 19:40	1
Boron	0.49		0.050	0.025	mg/L		12/09/16 14:56	12/12/16 17:30	1
Cadmium	0.0012		0.00050	0.00019	mg/L		12/09/16 14:56	12/12/16 17:30	1
Calcium	85		0.20	0.11	mg/L		12/09/16 14:56	12/12/16 17:30	1
Chromium	0.017		0.0050	0.00061	mg/L		12/09/16 14:56	12/12/16 17:30	1
Cobalt	0.0044		0.0010	0.00019	mg/L		12/09/16 14:56	12/12/16 17:30	1
Copper	0.029		0.0020	0.00096	mg/L		12/09/16 14:56	12/12/16 17:30	1
Iron	15	B	0.10	0.026	mg/L		12/09/16 14:56	12/12/16 17:30	1
Lead	0.51		0.00050	0.00014	mg/L		12/09/16 14:56	12/12/16 17:30	1
Magnesium	11		0.20	0.083	mg/L		12/09/16 14:56	12/12/16 17:30	1
Manganese	0.39		0.0025	0.00099	mg/L		12/09/16 14:56	12/12/16 17:30	1
Nickel	0.013		0.0020	0.00053	mg/L		12/09/16 14:56	12/12/16 17:30	1
Potassium	9.6		0.50	0.19	mg/L		12/09/16 14:56	12/12/16 17:30	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/09/16 14:56	12/12/16 17:30	1
Silver	0.00011	J	0.00050	0.000080	mg/L		12/09/16 14:56	12/12/16 17:30	1
Sodium	21		0.20	0.088	mg/L		12/09/16 14:56	12/12/16 17:30	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 14:56	12/12/16 17:30	1
Vanadium	0.015		0.0050	0.0022	mg/L		12/09/16 14:56	12/12/16 17:30	1
Zinc	0.31	B	0.020	0.0046	mg/L		12/09/16 14:56	12/12/16 17:30	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.00011	mg/L		12/12/16 14:00	12/13/16 13:39	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01D

Lab Sample ID: 500-121261-8

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/20/16 01:27	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/20/16 01:27	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/20/16 01:27	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/20/16 01:27	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/20/16 01:27	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/20/16 01:27	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/20/16 01:27	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/20/16 01:27	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/20/16 01:27	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/20/16 01:27	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/20/16 01:27	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/20/16 01:27	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/20/16 01:27	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/20/16 01:27	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/20/16 01:27	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/20/16 01:27	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/20/16 01:27	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/20/16 01:27	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/20/16 01:27	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/20/16 01:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/20/16 01:27	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/20/16 01:27	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/20/16 01:27	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/20/16 01:27	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/20/16 01:27	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/20/16 01:27	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/20/16 01:27	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/20/16 01:27	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/20/16 01:27	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/20/16 01:27	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/20/16 01:27	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/20/16 01:27	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/20/16 01:27	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/20/16 01:27	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/20/16 01:27	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/20/16 01:27	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/20/16 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		71 - 120		12/20/16 01:27	1
Dibromofluoromethane	90		70 - 120		12/20/16 01:27	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		12/20/16 01:27	1
Toluene-d8 (Surr)	93		75 - 120		12/20/16 01:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/16/16 05:45	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/12/16 21:45	12/16/16 05:45	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/16/16 05:45	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/16/16 05:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01D

Lab Sample ID: 500-121261-8

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4-Dimethylphenol	<0.0080	*	0.0080	0.0014	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		12/12/16 21:45	12/16/16 05:45	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/12/16 21:45	12/16/16 05:45	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		12/12/16 21:45	12/16/16 05:45	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/12/16 21:45	12/16/16 05:45	1
3,3'-Dichlorobenzidine	<0.0040	*	0.0040	0.0014	mg/L		12/12/16 21:45	12/16/16 05:45	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		12/12/16 21:45	12/16/16 05:45	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		12/12/16 21:45	12/16/16 05:45	1
4-Nitrophenol	<0.016		0.016	0.0060	mg/L		12/12/16 21:45	12/16/16 05:45	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		12/12/16 21:45	12/16/16 05:45	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		12/12/16 21:45	12/16/16 05:45	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		12/12/16 21:45	12/16/16 05:45	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		12/12/16 21:45	12/16/16 05:45	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		12/12/16 21:45	12/16/16 05:45	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		12/12/16 21:45	12/16/16 05:45	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		12/12/16 21:45	12/16/16 05:45	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		12/12/16 21:45	12/16/16 05:45	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/12/16 21:45	12/16/16 05:45	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/12/16 21:45	12/16/16 05:45	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		12/12/16 21:45	12/16/16 05:45	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/12/16 21:45	12/16/16 05:45	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/12/16 21:45	12/16/16 05:45	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/12/16 21:45	12/16/16 05:45	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/12/16 21:45	12/16/16 05:45	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/12/16 21:45	12/16/16 05:45	1
Diethyl phthalate	0.00041	J	0.0016	0.00029	mg/L		12/12/16 21:45	12/16/16 05:45	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/12/16 21:45	12/16/16 05:45	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00059	mg/L		12/12/16 21:45	12/16/16 05:45	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		12/12/16 21:45	12/16/16 05:45	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		12/12/16 21:45	12/16/16 05:45	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		12/12/16 21:45	12/16/16 05:45	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/12/16 21:45	12/16/16 05:45	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/12/16 21:45	12/16/16 05:45	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/12/16 21:45	12/16/16 05:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01D

Lab Sample ID: 500-121261-8

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/12/16 21:45	12/16/16 05:45	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		12/12/16 21:45	12/16/16 05:45	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/12/16 21:45	12/16/16 05:45	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		12/12/16 21:45	12/16/16 05:45	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		12/12/16 21:45	12/16/16 05:45	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/12/16 21:45	12/16/16 05:45	1
N-Nitrosodiphenylamine	<0.00080	*	0.00080	0.00030	mg/L		12/12/16 21:45	12/16/16 05:45	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/12/16 21:45	12/16/16 05:45	1
Phenanthrene	0.00032	J	0.00080	0.00024	mg/L		12/12/16 21:45	12/16/16 05:45	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/12/16 21:45	12/16/16 05:45	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		12/12/16 21:45	12/16/16 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	116		30 - 150	12/12/16 21:45	12/16/16 05:45	1
2-Fluorobiphenyl	78		30 - 123	12/12/16 21:45	12/16/16 05:45	1
2-Fluorophenol	55		30 - 110	12/12/16 21:45	12/16/16 05:45	1
Nitrobenzene-d5	73		33 - 139	12/12/16 21:45	12/16/16 05:45	1
Phenol-d5	37		20 - 100	12/12/16 21:45	12/16/16 05:45	1
Terphenyl-d14	116		42 - 150	12/12/16 21:45	12/16/16 05:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0068		0.0010	0.00044	mg/L		12/09/16 14:56	12/12/16 17:33	1
Barium	0.17		0.0025	0.00084	mg/L		12/09/16 14:56	12/12/16 17:33	1
Beryllium	0.00071	J ^	0.0010	0.00024	mg/L		12/09/16 14:56	12/15/16 19:44	1
Boron	0.46		0.050	0.025	mg/L		12/09/16 14:56	12/12/16 17:33	1
Cadmium	0.0011		0.00050	0.00019	mg/L		12/09/16 14:56	12/12/16 17:33	1
Calcium	83		0.20	0.11	mg/L		12/09/16 14:56	12/12/16 17:33	1
Chromium	0.012		0.0050	0.00061	mg/L		12/09/16 14:56	12/12/16 17:33	1
Cobalt	0.0039		0.0010	0.00019	mg/L		12/09/16 14:56	12/12/16 17:33	1
Copper	0.028		0.0020	0.00096	mg/L		12/09/16 14:56	12/12/16 17:33	1
Iron	14	B	0.10	0.026	mg/L		12/09/16 14:56	12/12/16 17:33	1
Lead	0.48		0.00050	0.00014	mg/L		12/09/16 14:56	12/12/16 17:33	1
Magnesium	11		0.20	0.083	mg/L		12/09/16 14:56	12/12/16 17:33	1
Manganese	0.35		0.0025	0.00099	mg/L		12/09/16 14:56	12/12/16 17:33	1
Nickel	0.012		0.0020	0.00053	mg/L		12/09/16 14:56	12/12/16 17:33	1
Potassium	9.1		0.50	0.19	mg/L		12/09/16 14:56	12/12/16 17:33	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/09/16 14:56	12/12/16 17:33	1
Silver	0.00010	J	0.00050	0.000080	mg/L		12/09/16 14:56	12/12/16 17:33	1
Sodium	20		0.20	0.088	mg/L		12/09/16 14:56	12/12/16 17:33	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 14:56	12/12/16 17:33	1
Vanadium	0.015		0.0050	0.0022	mg/L		12/09/16 14:56	12/12/16 17:33	1
Zinc	0.27	B	0.020	0.0046	mg/L		12/09/16 14:56	12/12/16 17:33	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/12/16 14:00	12/13/16 13:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-00-TB03

Lab Sample ID: 500-121261-9

Date Collected: 12/08/16 00:00

Matrix: Water

Date Received: 12/09/16 10:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/16/16 18:29	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/16/16 18:29	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/16/16 18:29	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/16/16 18:29	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/16/16 18:29	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/16/16 18:29	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/16/16 18:29	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/16/16 18:29	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/16/16 18:29	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/16/16 18:29	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/16/16 18:29	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/16/16 18:29	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/16/16 18:29	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/16/16 18:29	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/16/16 18:29	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/16/16 18:29	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/16/16 18:29	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/16/16 18:29	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/16/16 18:29	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/16/16 18:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/16/16 18:29	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/16/16 18:29	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/16/16 18:29	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/16/16 18:29	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/16/16 18:29	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/16/16 18:29	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/16/16 18:29	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/16/16 18:29	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/16/16 18:29	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/16/16 18:29	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/16/16 18:29	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/16/16 18:29	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/16/16 18:29	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/16/16 18:29	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/16/16 18:29	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/16/16 18:29	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/16/16 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		71 - 120		12/16/16 18:29	1
Dibromofluoromethane	92		70 - 120		12/16/16 18:29	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		12/16/16 18:29	1
Toluene-d8 (Surr)	91		75 - 120		12/16/16 18:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/09/16 17:53	12/11/16 15:17	1
Dibromofluoromethane	100		75 - 120	12/09/16 17:53	12/11/16 15:17	1
1,2-Dichloroethane-d4 (Surr)	110		69 - 134	12/09/16 17:53	12/11/16 15:17	1
Toluene-d8 (Surr)	103		75 - 123	12/09/16 17:53	12/11/16 15:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Methylnaphthalene	0.014	J	0.073	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Acenaphthene	0.0085	J	0.036	0.0065	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Phenanthrene	0.028	J	0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Fluoranthene	0.035	J	0.036	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Pyrene	0.032	J	0.036	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Benzo[a]anthracene	0.021	J	0.036	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.036	0.0099	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Benzo[b]fluoranthene	0.048		0.036	0.0078	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Benzo[k]fluoranthene	0.022	J	0.036	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Benzo[a]pyrene	0.034	J	0.036	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.036	0.0094	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130	12/19/16 16:12	12/20/16 14:49	1
Phenol-d5	95		36 - 123	12/19/16 16:12	12/20/16 14:49	1
Nitrobenzene-d5	82		33 - 124	12/19/16 16:12	12/20/16 14:49	1
2-Fluorobiphenyl	83		42 - 115	12/19/16 16:12	12/20/16 14:49	1
2,4,6-Tribromophenol	59		25 - 130	12/19/16 16:12	12/20/16 14:49	1
Terphenyl-d14	97		25 - 150	12/19/16 16:12	12/20/16 14:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Arsenic	6.7		0.55	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Barium	54		0.55	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Beryllium	0.59		0.22	0.048	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Boron	1.5	J	2.8	0.39	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Cadmium	0.39		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Calcium	21000	B	11	3.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Chromium	35	B	0.55	0.095	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Cobalt	7.2		0.28	0.063	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Copper	27		0.55	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Iron	21000		11	4.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Lead	22		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Magnesium	8200		5.5	2.2	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Manganese	340		0.55	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Nickel	61		0.55	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Potassium	780		28	4.5	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Sodium	73		55	7.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Thallium	0.68		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Vanadium	23		0.28	0.081	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1
Zinc	39		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 21:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:04	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0045	J	0.0050	0.0020	mg/L		12/15/16 08:57	12/16/16 00:04	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:04	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:04	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 08:57	12/16/16 00:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 08:57	12/16/16 00:04	1
Manganese	2.3		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:04	1
Nickel	0.24		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:04	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/16/16 00:04	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:04	1
Zinc	0.044	J	0.50	0.020	mg/L		12/15/16 08:57	12/16/16 00:04	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 05:40	1
Nickel	0.027		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 05:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 18:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 18:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.017	0.0091	mg/Kg	☼	12/14/16 16:00	12/15/16 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.1		0.2	0.2	SU			12/14/16 15:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/09/16 17:53	12/11/16 15:42	1
Dibromofluoromethane	101		75 - 120	12/09/16 17:53	12/11/16 15:42	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/09/16 17:53	12/11/16 15:42	1
Toluene-d8 (Surr)	103		75 - 123	12/09/16 17:53	12/11/16 15:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Naphthalene	0.0077	J	0.039	0.0060	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Methylnaphthalene	0.0084	J	0.079	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Fluoranthene	0.016	J	0.039	0.0073	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Pyrene	0.014	J	0.039	0.0078	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Benzo[a]anthracene	0.0089	J	0.039	0.0053	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.039	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Benzo[b]fluoranthene	0.021	J	0.039	0.0085	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Benzo[a]pyrene	0.0091	J	0.039	0.0076	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		40 - 130	12/19/16 16:12	12/20/16 15:14	1
Phenol-d5	61		36 - 123	12/19/16 16:12	12/20/16 15:14	1
Nitrobenzene-d5	70		33 - 124	12/19/16 16:12	12/20/16 15:14	1
2-Fluorobiphenyl	67		42 - 115	12/19/16 16:12	12/20/16 15:14	1
2,4,6-Tribromophenol	45		25 - 130	12/19/16 16:12	12/20/16 15:14	1
Terphenyl-d14	84		25 - 150	12/19/16 16:12	12/20/16 15:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Barium	64		0.56	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Beryllium	0.55		0.23	0.049	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Boron	1.7	J	2.8	0.39	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Cadmium	0.27		0.11	0.033	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Calcium	23000	B	11	3.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Chromium	15	B	0.56	0.097	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Cobalt	5.4		0.28	0.064	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Copper	14		0.56	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Iron	15000		11	4.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Lead	20		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Magnesium	11000		5.6	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Manganese	230		0.56	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Nickel	14		0.56	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Potassium	740		28	4.6	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Sodium	140		56	7.4	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Thallium	0.61		0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Vanadium	25		0.28	0.082	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1
Zinc	34		1.1	0.36	mg/Kg	☼	12/14/16 15:50	12/16/16 21:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.77		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:17	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0074		0.0050	0.0020	mg/L		12/15/16 08:57	12/16/16 00:17	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:17	1
Cobalt	0.020	J	0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:17	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 08:57	12/16/16 00:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 22:19	1
Manganese	4.3		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:17	1
Nickel	0.063		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:17	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/16/16 00:17	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:17	1
Zinc	0.38	J	0.50	0.020	mg/L		12/15/16 08:57	12/16/16 00:17	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/14/16 14:09	12/16/16 06:02	1
Manganese	0.28		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 06:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 18:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.018	0.0094	mg/Kg	☼	12/14/16 16:00	12/15/16 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.1		0.2	0.2	SU			12/14/16 15:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/09/16 17:53	12/11/16 16:07	1
Dibromofluoromethane	100		75 - 120	12/09/16 17:53	12/11/16 16:07	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/09/16 17:53	12/11/16 16:07	1
Toluene-d8 (Surr)	102		75 - 123	12/09/16 17:53	12/11/16 16:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4-Dinitrophenol	<0.77	*	0.77	0.68	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		40 - 130	12/19/16 16:12	12/20/16 15:39	1
Phenol-d5	50		36 - 123	12/19/16 16:12	12/20/16 15:39	1
Nitrobenzene-d5	52		33 - 124	12/19/16 16:12	12/20/16 15:39	1
2-Fluorobiphenyl	55		42 - 115	12/19/16 16:12	12/20/16 15:39	1
2,4,6-Tribromophenol	44		25 - 130	12/19/16 16:12	12/20/16 15:39	1
Terphenyl-d14	77		25 - 150	12/19/16 16:12	12/20/16 15:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Arsenic	3.0		0.58	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Barium	50		0.58	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Beryllium	0.55		0.23	0.050	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Boron	2.0	J	2.9	0.40	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Cadmium	0.25		0.12	0.033	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Calcium	30000	B	12	3.7	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Chromium	17	B	0.58	0.099	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Cobalt	4.6		0.29	0.065	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Copper	13		0.58	0.13	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Iron	12000		12	4.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Lead	20		0.29	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Magnesium	12000		5.8	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Manganese	250		0.58	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Nickel	14		0.58	0.16	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Potassium	450		29	4.7	mg/Kg	☼	12/14/16 15:50	12/18/16 20:39	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Sodium	140		58	7.6	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Thallium	0.52	J	0.58	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Vanadium	24		0.29	0.084	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1
Zinc	33		1.2	0.36	mg/Kg	☼	12/14/16 15:50	12/16/16 22:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:21	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0040	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Manganese	3.4		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Nickel	0.038		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:21	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 06:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 18:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 18:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	B	0.019	0.0098	mg/Kg	☼	12/14/16 16:00	12/15/16 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU	-		12/14/16 15:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,1,2,2-Tetrachloroethane	<0.0020 *		0.0020	0.00063	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	12/08/16 11:20	12/13/16 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	* X	70 - 120	12/08/16 11:20	12/13/16 13:47	1
Dibromofluoromethane	91		75 - 120	12/08/16 11:20	12/13/16 13:47	1
1,2-Dichloroethane-d4 (Surr)	88		69 - 134	12/08/16 11:20	12/13/16 13:47	1
Toluene-d8 (Surr)	124	X	75 - 123	12/08/16 11:20	12/13/16 13:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Naphthalene	0.041		0.036	0.0056	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Methylnaphthalene	0.032 J		0.073	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4-Dinitrophenol	<0.73 *		0.73	0.64	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Acenaphthene	0.018 J		0.036	0.0065	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Fluorene	0.018 J		0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Phenanthrene	0.24		0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Anthracene	0.053		0.036	0.0061	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Fluoranthene	0.37		0.036	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Pyrene	0.33		0.036	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Benzo[a]anthracene	0.20		0.036	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22		0.036	0.0099	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Benzo[b]fluoranthene	0.37		0.036	0.0079	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Benzo[k]fluoranthene	0.14		0.036	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Benzo[a]pyrene	0.25		0.036	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Indeno[1,2,3-cd]pyrene	0.084		0.036	0.0094	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Dibenz(a,h)anthracene	0.029	J	0.036	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
Benzo[g,h,i]perylene	0.074		0.036	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		40 - 130	12/19/16 16:12	12/20/16 19:00	1
Phenol-d5	77		36 - 123	12/19/16 16:12	12/20/16 19:00	1
Nitrobenzene-d5	70		33 - 124	12/19/16 16:12	12/20/16 19:00	1
2-Fluorobiphenyl	68		42 - 115	12/19/16 16:12	12/20/16 19:00	1
2,4,6-Tribromophenol	49		25 - 130	12/19/16 16:12	12/20/16 19:00	1
Terphenyl-d14	85		25 - 150	12/19/16 16:12	12/20/16 19:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018	0.0065	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1221	<0.018		0.018	0.0081	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1232	<0.018		0.018	0.0080	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1242	<0.018		0.018	0.0061	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1248	<0.018		0.018	0.0073	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1254	<0.018		0.018	0.0040	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1
PCB-1260	<0.018		0.018	0.0090	mg/Kg	☼	12/13/16 16:25	12/14/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		41 - 124	12/13/16 16:25	12/14/16 15:03	1
DCB Decachlorobiphenyl	97		47 - 127	12/13/16 16:25	12/14/16 15:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8	J	5.5	1.1	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Arsenic	14		2.8	1.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Barium	31		2.8	0.51	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Beryllium	0.27	J	1.1	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Boron	7.1	J	14	1.9	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Cadmium	0.42	J	0.55	0.16	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Calcium	4500	B	55	18	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Chromium	94	B	2.8	0.48	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Cobalt	10		1.4	0.31	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Copper	66		2.8	0.60	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Iron	95000		55	21	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Lead	110		1.4	0.69	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Magnesium	1100		28	11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Manganese	850		2.8	0.55	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	310		2.8	0.75	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Potassium	370		140	23	mg/Kg	☼	12/14/16 15:50	12/18/16 20:43	5
Selenium	2.2	J	2.8	1.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Silver	<1.4		1.4	0.32	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Sodium	85	J	280	37	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Thallium	2.8		2.8	1.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Vanadium	34		1.4	0.40	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5
Zinc	84		5.5	1.8	mg/Kg	☼	12/14/16 15:50	12/16/16 22:24	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:26	1
Boron	0.070	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 08:57	12/16/16 00:26	1
Chromium	0.014	J	0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:26	1
Cobalt	0.086		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:26	1
Iron	86		0.40	0.20	mg/L		12/15/16 08:57	12/16/16 00:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 22:24	1
Manganese	9.3		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:26	1
Nickel	1.2		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:26	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/16/16 00:26	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:26	1
Zinc	0.39	J	0.50	0.020	mg/L		12/15/16 08:57	12/16/16 00:26	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		0.40	0.20	mg/L		12/14/16 14:09	12/16/16 06:16	1
Manganese	0.059		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 06:16	1
Nickel	0.010	J	0.025	0.010	mg/L		12/14/16 14:09	12/16/16 06:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 18:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 18:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	B	0.019	0.010	mg/Kg	☼	12/14/16 16:00	12/15/16 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/14/16 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Chloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/09/16 17:53	12/11/16 16:57	1
Dibromofluoromethane	99		75 - 120	12/09/16 17:53	12/11/16 16:57	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134	12/09/16 17:53	12/11/16 16:57	1
Toluene-d8 (Surr)	106		75 - 123	12/09/16 17:53	12/11/16 16:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Naphthalene	0.026	J	0.037	0.0057	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Methylnaphthalene	0.022	J	0.075	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Acenaphthylene	0.022	J	0.037	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Acenaphthene	0.011	J	0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Fluorene	0.0086	J	0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Phenanthrene	0.24		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Anthracene	0.060		0.037	0.0062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Fluoranthene	1.1		0.037	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Pyrene	2.0		0.037	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Benzo[a]anthracene	1.0		0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.96		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Benzo[b]fluoranthene	1.3		0.037	0.0080	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Benzo[k]fluoranthene	0.50		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Benzo[a]pyrene	1.3		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Indeno[1,2,3-cd]pyrene	0.27		0.037	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Dibenz(a,h)anthracene	0.11		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
Benzo[g,h,i]perylene	0.28		0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		40 - 130	12/19/16 16:12	12/20/16 19:25	1
Phenol-d5	84		36 - 123	12/19/16 16:12	12/20/16 19:25	1
Nitrobenzene-d5	85		33 - 124	12/19/16 16:12	12/20/16 19:25	1
2-Fluorobiphenyl	83		42 - 115	12/19/16 16:12	12/20/16 19:25	1
2,4,6-Tribromophenol	63		25 - 130	12/19/16 16:12	12/20/16 19:25	1
Terphenyl-d14	110		25 - 150	12/19/16 16:12	12/20/16 19:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	5.5	1.1	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Arsenic	7.7		2.8	1.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Barium	62		2.8	0.51	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Beryllium	0.58	J	1.1	0.24	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Boron	11	J	14	1.9	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Cadmium	0.59		0.55	0.16	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Calcium	13000	B	55	18	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Chromium	27	B	2.8	0.48	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Cobalt	5.8		1.4	0.31	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Copper	29		2.8	0.60	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Iron	37000		55	21	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Lead	82		1.4	0.69	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Magnesium	2200		28	11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Manganese	660		2.8	0.55	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Nickel	49		2.8	0.75	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Potassium	600		140	23	mg/Kg	☼	12/14/16 15:50	12/18/16 20:48	5
Selenium	<2.8		2.8	1.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Silver	<1.4		1.4	0.32	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Sodium	140	J	280	36	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Thallium	1.5	J	2.8	1.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Vanadium	23		1.4	0.40	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5
Zinc	160		5.5	1.7	mg/Kg	☼	12/14/16 15:50	12/16/16 22:31	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:31	1
Boron	0.077	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0053		0.0050	0.0020	mg/L		12/15/16 08:57	12/16/16 00:31	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:31	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 08:57	12/16/16 00:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 22:50	1
Manganese	1.1		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:31	1
Nickel	0.022	J	0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/16/16 00:31	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:31	1
Zinc	0.49	J	0.50	0.020	mg/L		12/15/16 08:57	12/16/16 00:31	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/14/16 14:09	12/16/16 06:23	1
Manganese	0.17		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 06:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 19:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 19:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43	B	0.020	0.010	mg/Kg	☼	12/14/16 16:00	12/15/16 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/14/16 15:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/09/16 17:53	12/11/16 17:22	1
Dibromofluoromethane	99		75 - 120	12/09/16 17:53	12/11/16 17:22	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/09/16 17:53	12/11/16 17:22	1
Toluene-d8 (Surr)	103		75 - 123	12/09/16 17:53	12/11/16 17:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Pyrene	0.028	J	0.038	0.0077	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Benzo[b]fluoranthene	0.031	J	0.038	0.0083	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Benzo[a]pyrene	0.019	J	0.038	0.0075	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		40 - 130	12/19/16 16:12	12/20/16 16:04	1
Phenol-d5	91		36 - 123	12/19/16 16:12	12/20/16 16:04	1
Nitrobenzene-d5	81		33 - 124	12/19/16 16:12	12/20/16 16:04	1
2-Fluorobiphenyl	79		42 - 115	12/19/16 16:12	12/20/16 16:04	1
2,4,6-Tribromophenol	63		25 - 130	12/19/16 16:12	12/20/16 16:04	1
Terphenyl-d14	103		25 - 150	12/19/16 16:12	12/20/16 16:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Arsenic	4.7		0.56	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Barium	70		0.56	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Beryllium	0.48		0.22	0.048	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Boron	2.2	J	2.8	0.39	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Cadmium	0.21		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Calcium	30000	B	11	3.6	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Chromium	13	B	0.56	0.096	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Cobalt	5.3		0.28	0.063	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Copper	11		0.56	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Iron	13000		11	4.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Lead	6.9		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Magnesium	17000		5.6	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Manganese	290		0.56	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Nickel	16		0.56	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Potassium	480		28	4.6	mg/Kg	☼	12/14/16 15:50	12/18/16 20:52	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Sodium	120		56	7.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Thallium	0.62		0.56	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Vanadium	23		0.28	0.081	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1
Zinc	27		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 22:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:36	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/19/16 08:53	12/19/16 22:55	1
Manganese	0.81		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Nickel	0.021	J	0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:36	1
Zinc	0.057	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 06:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 19:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 19:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 11:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J B	0.017	0.0089	mg/Kg	☼	12/14/16 16:00	12/15/16 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/14/16 16:00	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0093	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Vinyl acetate	<0.0053		0.0053	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	12/09/16 17:53	12/11/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	12/09/16 17:53	12/11/16 17:47	1
Dibromofluoromethane	99		75 - 120	12/09/16 17:53	12/11/16 17:47	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/09/16 17:53	12/11/16 17:47	1
Toluene-d8 (Surr)	105		75 - 123	12/09/16 17:53	12/11/16 17:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Methylnaphthalene	0.020	J	0.074	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4-Dinitrophenol	<0.74	*	0.74	0.64	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Acenaphthylene	0.011	J	0.036	0.0048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Acenaphthene	0.031	J	0.036	0.0066	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Fluorene	0.032	J	0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Hexachlorobenzene	<0.074		0.074	0.0084	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Pentachlorophenol	<0.74		0.74	0.58	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Phenanthrene	0.40		0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Anthracene	0.092		0.036	0.0061	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Fluoranthene	0.79		0.036	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Pyrene	0.76		0.036	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Benzo[a]anthracene	0.40		0.036	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.38		0.036	0.0099	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Benzo[b]fluoranthene	0.67		0.036	0.0079	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Benzo[k]fluoranthene	0.27		0.036	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Benzo[a]pyrene	0.51		0.036	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Indeno[1,2,3-cd]pyrene	0.16		0.036	0.0094	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Dibenz(a,h)anthracene	0.054		0.036	0.0070	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
Benzo[g,h,i]perylene	0.15		0.036	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		40 - 130	12/19/16 16:12	12/20/16 19:51	1
Phenol-d5	76		36 - 123	12/19/16 16:12	12/20/16 19:51	1
Nitrobenzene-d5	73		33 - 124	12/19/16 16:12	12/20/16 19:51	1
2-Fluorobiphenyl	72		42 - 115	12/19/16 16:12	12/20/16 19:51	1
2,4,6-Tribromophenol	58		25 - 130	12/19/16 16:12	12/20/16 19:51	1
Terphenyl-d14	106		25 - 150	12/19/16 16:12	12/20/16 19:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Arsenic	4.3		0.55	0.25	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Barium	81		0.55	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Beryllium	0.56		0.22	0.048	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Boron	5.6		2.8	0.38	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Cadmium	0.44		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Calcium	19000	B	11	3.5	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Chromium	15	B	0.55	0.095	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Cobalt	5.0		0.28	0.062	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Copper	19		0.55	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Iron	15000		11	4.2	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Lead	73		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Magnesium	4300		5.5	2.2	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Manganese	440		0.55	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Nickel	13		0.55	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Potassium	580		28	4.5	mg/Kg	☼	12/14/16 15:50	12/18/16 20:56	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Sodium	280		55	7.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Thallium	0.80		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Vanadium	21		0.28	0.080	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1
Zinc	85		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 22:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:41	1
Boron	0.064	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0032	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/19/16 08:53	12/19/16 23:00	1
Manganese	0.46		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:41	1
Zinc	0.069	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 06:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 19:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 19:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	B	0.018	0.0094	mg/Kg	☼	12/14/16 16:00	12/15/16 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/14/16 16:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/09/16 17:53	12/11/16 18:12	1
Dibromofluoromethane	98		75 - 120	12/09/16 17:53	12/11/16 18:12	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134	12/09/16 17:53	12/11/16 18:12	1
Toluene-d8 (Surr)	104		75 - 123	12/09/16 17:53	12/11/16 18:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Naphthalene	0.013	J	0.036	0.0056	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Methylnaphthalene	0.016	J	0.074	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4-Dinitrophenol	<0.74	*	0.74	0.65	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Acenaphthylene	0.010	J	0.036	0.0048	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Acenaphthene	0.025	J	0.036	0.0066	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Fluorene	0.023	J	0.036	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Phenanthrene	0.35		0.036	0.0051	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Anthracene	0.074		0.036	0.0061	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Fluoranthene	0.68		0.036	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Pyrene	0.70		0.036	0.0073	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Benzo[a]anthracene	0.35		0.036	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.34		0.036	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Benzo[b]fluoranthene	0.59		0.036	0.0079	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Benzo[k]fluoranthene	0.78		0.036	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Benzo[a]pyrene	0.42		0.036	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.0095	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Dibenz(a,h)anthracene	0.046		0.036	0.0071	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
Benzo[g,h,i]perylene	0.12		0.036	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		40 - 130	12/19/16 16:12	12/20/16 20:16	1
Phenol-d5	80		36 - 123	12/19/16 16:12	12/20/16 20:16	1
Nitrobenzene-d5	72		33 - 124	12/19/16 16:12	12/20/16 20:16	1
2-Fluorobiphenyl	74		42 - 115	12/19/16 16:12	12/20/16 20:16	1
2,4,6-Tribromophenol	62		25 - 130	12/19/16 16:12	12/20/16 20:16	1
Terphenyl-d14	116		25 - 150	12/19/16 16:12	12/20/16 20:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Arsenic	4.1		0.56	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Barium	87		0.56	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Beryllium	0.54		0.22	0.049	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Boron	5.1		2.8	0.39	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Cadmium	0.43		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Calcium	21000	B	11	3.6	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Chromium	15	B	0.56	0.096	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Cobalt	5.0		0.28	0.063	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Copper	17		0.56	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Iron	13000		11	4.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Lead	65		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Magnesium	4000		5.6	2.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Manganese	460		0.56	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Nickel	13		0.56	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Potassium	600		28	4.6	mg/Kg	☼	12/14/16 15:50	12/18/16 21:08	1
Selenium	0.30	J	0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Sodium	270		56	7.4	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Thallium	0.84		0.56	0.28	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Vanadium	20		0.28	0.082	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1
Zinc	76		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 22:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:46	1
Boron	0.060	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/19/16 08:53	12/19/16 23:05	1
Manganese	0.61		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:46	1
Zinc	0.094	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 06:43	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 19:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 19:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 11:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	B	0.017	0.0090	mg/Kg	☼	12/14/16 16:00	12/15/16 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/14/16 16:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/09/16 17:53	12/11/16 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/09/16 17:53	12/11/16 18:36	1
Dibromofluoromethane	104		75 - 120	12/09/16 17:53	12/11/16 18:36	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 134	12/09/16 17:53	12/11/16 18:36	1
Toluene-d8 (Surr)	103		75 - 123	12/09/16 17:53	12/11/16 18:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Naphthalene	0.0088	J	0.037	0.0058	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Methylnaphthalene	0.013	J	0.075	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Acenaphthene	0.016	J	0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Fluorene	0.013	J	0.037	0.0053	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Phenanthrene	0.25		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Anthracene	0.045		0.037	0.0062	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Fluoranthene	0.49		0.037	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Pyrene	0.57		0.037	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Benzo[a]anthracene	0.22		0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.25		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Benzo[b]fluoranthene	0.44		0.037	0.0081	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Benzo[k]fluoranthene	0.16		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Benzo[a]pyrene	0.29		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Indeno[1,2,3-cd]pyrene	0.11		0.037	0.0097	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Dibenz(a,h)anthracene	0.034	J	0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
Benzo[g,h,i]perylene	0.095		0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		40 - 130	12/19/16 16:12	12/20/16 20:41	1
Phenol-d5	85		36 - 123	12/19/16 16:12	12/20/16 20:41	1
Nitrobenzene-d5	77		33 - 124	12/19/16 16:12	12/20/16 20:41	1
2-Fluorobiphenyl	76		42 - 115	12/19/16 16:12	12/20/16 20:41	1
2,4,6-Tribromophenol	51		25 - 130	12/19/16 16:12	12/20/16 20:41	1
Terphenyl-d14	130		25 - 150	12/19/16 16:12	12/20/16 20:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.23	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Arsenic	4.8		0.55	0.25	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Barium	85		0.55	0.10	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Beryllium	0.47		0.22	0.048	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Boron	4.1		2.8	0.38	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Cadmium	0.44		0.11	0.032	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Calcium	83000	B	110	35	mg/Kg	☼	12/14/16 15:50	12/18/16 21:18	10
Chromium	17	B	0.55	0.095	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Cobalt	5.2		0.28	0.062	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Copper	20		0.55	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Iron	14000		11	4.2	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Lead	130		0.28	0.14	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Magnesium	4500		5.5	2.2	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Manganese	580		0.55	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Nickel	14		0.55	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Potassium	650		28	4.5	mg/Kg	☼	12/14/16 15:50	12/18/16 21:13	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Sodium	180		55	7.3	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Thallium	0.93		0.55	0.27	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Vanadium	18		0.28	0.080	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1
Zinc	120		1.1	0.35	mg/Kg	☼	12/14/16 15:50	12/16/16 22:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:50	1
Boron	0.061	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0037	J	0.0050	0.0020	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/19/16 08:53	12/19/16 23:10	1
Manganese	0.97		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 08:57	12/16/16 00:50	1
Zinc	0.25	J	0.50	0.020	mg/L	-	12/15/16 08:57	12/16/16 00:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L	-	12/14/16 14:09	12/16/16 06:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 08:57	12/15/16 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 08:57	12/15/16 19:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 11:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.018	0.0096	mg/Kg	☼	12/14/16 16:00	12/15/16 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/14/16 16:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0097	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Chloroethane	<0.0056		0.0056	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,1-Dichloroethene	<0.0022		0.0022	0.00076	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00078	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0016	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00098	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00095	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Vinyl acetate	<0.0056		0.0056	0.0019	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Vinyl chloride	<0.0022		0.0022	0.00098	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1
Xylenes, Total	<0.0044		0.0044	0.00071	mg/Kg	☼	12/09/16 17:53	12/11/16 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/09/16 17:53	12/11/16 19:01	1
4-Bromofluorobenzene (Surr)	111		70 - 120	12/09/16 17:53	12/12/16 16:47	1
Dibromofluoromethane	99		75 - 120	12/09/16 17:53	12/11/16 19:01	1
Dibromofluoromethane	97		75 - 120	12/09/16 17:53	12/12/16 16:47	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/09/16 17:53	12/11/16 19:01	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/09/16 17:53	12/12/16 16:47	1
Toluene-d8 (Surr)	105		75 - 123	12/09/16 17:53	12/11/16 19:01	1
Toluene-d8 (Surr)	108		75 - 123	12/09/16 17:53	12/12/16 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Hexachlorocyclopentadiene	<0.75	F1	0.75	0.21	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Phenanthrene	0.053		0.037	0.0052	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Anthracene	0.011	J	0.037	0.0062	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.12		0.037	0.0069	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Pyrene	0.10		0.037	0.0074	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Benzo[a]anthracene	0.055		0.037	0.0050	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Chrysene	0.062		0.037	0.010	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
3,3'-Dichlorobenzidine	<0.19	F1 F2	0.19	0.052	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Benzo[b]fluoranthene	0.11		0.037	0.0080	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Benzo[k]fluoranthene	0.039		0.037	0.011	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Benzo[a]pyrene	0.074		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Indeno[1,2,3-cd]pyrene	0.039		0.037	0.0096	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Benzo[g,h,i]perylene	0.029	J	0.037	0.012	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/19/16 16:12	12/20/16 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130				12/19/16 16:12	12/20/16 16:30	1
Phenol-d5	84		36 - 123				12/19/16 16:12	12/20/16 16:30	1
Nitrobenzene-d5	75		33 - 124				12/19/16 16:12	12/20/16 16:30	1
2-Fluorobiphenyl	73		42 - 115				12/19/16 16:12	12/20/16 16:30	1
2,4,6-Tribromophenol	62		25 - 130				12/19/16 16:12	12/20/16 16:30	1
Terphenyl-d14	95		25 - 150				12/19/16 16:12	12/20/16 16:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.22	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Arsenic	3.9		0.54	0.25	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Barium	81		0.54	0.098	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Beryllium	0.49		0.21	0.046	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Boron	3.3	F1	2.7	0.37	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Cadmium	0.23		0.11	0.031	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Calcium	8900	B	11	3.4	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Chromium	13	B	0.54	0.092	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Cobalt	4.8		0.27	0.060	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Copper	12		0.54	0.12	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Iron	12000		11	4.1	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Lead	26	F2	0.27	0.13	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Magnesium	2800		5.4	2.2	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Manganese	410		0.54	0.11	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Nickel	11		0.54	0.15	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Potassium	570		27	4.4	mg/Kg	☼	12/14/16 15:50	12/18/16 21:22	1
Selenium	0.28	J F1	0.54	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Sodium	290		54	7.1	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Thallium	0.66		0.54	0.26	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Vanadium	20		0.27	0.078	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1
Zinc	45	F1	1.1	0.34	mg/Kg	☼	12/14/16 15:50	12/16/16 23:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.9

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/16/16 00:55	1
Boron	0.074	J	0.50	0.050	mg/L		12/15/16 08:57	12/16/16 00:55	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		12/15/16 08:57	12/16/16 00:55	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:55	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:55	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 08:57	12/16/16 00:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 23:15	1
Manganese	0.90		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:55	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:55	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/16/16 00:55	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/16/16 00:55	1
Zinc	0.048	J	0.50	0.020	mg/L		12/15/16 08:57	12/16/16 00:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.38		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 18:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 19:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065	B	0.018	0.0095	mg/Kg	☼	12/14/16 16:00	12/15/16 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			12/14/16 16:12	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

GC/MS VOA

Prep Batch: 364544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	5035	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	5035	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	5035	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	5035	
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	5035	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	5035	
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	5035	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	5035	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	5035	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	5035	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	5035	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	5035	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	5035	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	5035	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	5035	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	5035	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 364545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	8260B	364544
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	8260B	364544
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	8260B	364544
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	8260B	364544
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	8260B	364544
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	8260B	364544
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	8260B	364544
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	8260B	364544
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	8260B	364544
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	8260B	364544
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	8260B	364544
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	8260B	364544
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	8260B	364544
MB 500-364545/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-364545/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364545/25	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 364610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	8260B	364544
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	8260B	364544
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	8260B	364544
MB 500-364610/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-364610/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364610/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 364836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	8260B	364544
MB 500-364836/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-364836/4	Lab Control Sample	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Analysis Batch: 365402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total/NA	Water	8260B	
500-121261-9	1314V3-00-TB03	Total/NA	Water	8260B	
MB 500-365402/6	Method Blank	Total/NA	Water	8260B	
LCS 500-365402/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 365839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-8	1314V3-02-G01D	Total/NA	Water	8260B	
MB 500-365839/7	Method Blank	Total/NA	Water	8260B	
LCS 500-365839/5	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 364764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total/NA	Water	3510C	
500-121261-8	1314V3-02-G01D	Total/NA	Water	3510C	
MB 500-364764/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-364764/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-364764/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 364917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364764/1-A	Method Blank	Total/NA	Water	8270D	364764
LCS 500-364764/2-A	Lab Control Sample	Total/NA	Water	8270D	364764
LCSD 500-364764/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	364764

Analysis Batch: 365383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total/NA	Water	8270D	364764
500-121261-8	1314V3-02-G01D	Total/NA	Water	8270D	364764

Prep Batch: 365830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	3541	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	3541	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	3541	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	3541	
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	3541	
500-121261-6 - DL	1314V3-02-B01 (5-10)	Total/NA	Solid	3541	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	3541	
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	3541	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	3541	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	3541	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	3541	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	3541	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	3541	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	3541	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	3541	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	3541	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	3541	
MB 500-365830/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-365830/2-A	Lab Control Sample	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

GC/MS Semi VOA (Continued)

Prep Batch: 365830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-19 MS	1314V3-11-B01 (0-1)	Total/NA	Solid	3541	
500-121261-19 MSD	1314V3-11-B01 (0-1)	Total/NA	Solid	3541	

Analysis Batch: 365886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-365830/1-A	Method Blank	Total/NA	Solid	8270D	365830
LCS 500-365830/2-A	Lab Control Sample	Total/NA	Solid	8270D	365830

Analysis Batch: 365896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	8270D	365830
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	8270D	365830
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	8270D	365830
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	8270D	365830
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	8270D	365830
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	8270D	365830
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	8270D	365830
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	8270D	365830
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	8270D	365830
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	8270D	365830
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	8270D	365830
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	8270D	365830
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	8270D	365830
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	8270D	365830
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	8270D	365830
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	8270D	365830
500-121261-19 MS	1314V3-11-B01 (0-1)	Total/NA	Solid	8270D	365830
500-121261-19 MSD	1314V3-11-B01 (0-1)	Total/NA	Solid	8270D	365830

Analysis Batch: 366210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-6 - DL	1314V3-02-B01 (5-10)	Total/NA	Solid	8270D	365830

GC Semi VOA

Prep Batch: 364935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	3541	
MB 500-364935/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-364935/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 365035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	8082A	364935
MB 500-364935/1-A	Method Blank	Total/NA	Solid	8082A	364935
LCS 500-364935/3-A	Lab Control Sample	Total/NA	Solid	8082A	364935

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals

Prep Batch: 364441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total Recoverable	Water	3005A	
500-121261-8	1314V3-02-G01D	Total Recoverable	Water	3005A	
MB 500-364441/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-364441/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 364700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total/NA	Water	7470A	
500-121261-8	1314V3-02-G01D	Total/NA	Water	7470A	
MB 500-364700/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-364700/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 364838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total Recoverable	Water	6020A	364441
500-121261-8	1314V3-02-G01D	Total Recoverable	Water	6020A	364441
MB 500-364441/1-A	Method Blank	Total Recoverable	Water	6020A	364441
LCS 500-364441/2-A	Lab Control Sample	Total Recoverable	Water	6020A	364441

Leach Batch: 364903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	SPLP East	Solid	1312	
500-121261-2	1314V3-01-B36 (8-16)	SPLP East	Solid	1312	
500-121261-3	1314V3-01-B36 (16-24)	SPLP East	Solid	1312	
500-121261-4	1314V3-01-B36 (24-28)	SPLP East	Solid	1312	
500-121261-6	1314V3-02-B01 (5-10)	SPLP East	Solid	1312	
500-121261-10	1314V3-02-B02 (0-6)	SPLP East	Solid	1312	
500-121261-11	1314V3-02-B02 (6-12)	SPLP East	Solid	1312	
500-121261-12	1314V3-02-B02 (6-12)D	SPLP East	Solid	1312	
500-121261-13	1314V3-06-B01 (0-8)	SPLP East	Solid	1312	
500-121261-14	1314V3-06-B02 (0-8)	SPLP East	Solid	1312	
500-121261-15	1314V3-06-B03 (0-4)	SPLP East	Solid	1312	
500-121261-16	1314V3-11-B03 (0-1)	SPLP East	Solid	1312	
500-121261-17	1314V3-11-B03 (0-1)D	SPLP East	Solid	1312	
500-121261-18	1314V3-11-B02 (0-1)	SPLP East	Solid	1312	
500-121261-19	1314V3-11-B01 (0-1)	SPLP East	Solid	1312	
LB 500-364903/1-B	Method Blank	SPLP East	Solid	1312	
500-121261-19 MS	1314V3-11-B01 (0-1)	SPLP East	Solid	1312	
500-121261-19 DU	1314V3-11-B01 (0-1)	SPLP East	Solid	1312	

Analysis Batch: 364926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total/NA	Water	7470A	364700
500-121261-8	1314V3-02-G01D	Total/NA	Water	7470A	364700
MB 500-364700/12-A	Method Blank	Total/NA	Water	7470A	364700
LCS 500-364700/13-A	Lab Control Sample	Total/NA	Water	7470A	364700

Leach Batch: 365091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	1311	
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Leach Batch: 365091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	1311	
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	1311	
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	1311	
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	1311	
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	1311	
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	1311	
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	1311	
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	1311	
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	1311	
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	1311	
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	1311	
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	1311	
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	1311	
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	1311	
LB 500-365091/1-B	Method Blank	TCLP	Solid	1311	
LB 500-365091/1-C	Method Blank	TCLP	Solid	1311	
500-121261-1 MS	1314V3-01-B36 (0-8)	TCLP	Solid	1311	
500-121261-19 MS	1314V3-11-B01 (0-1)	TCLP	Solid	1311	
500-121261-1 DU	1314V3-01-B36 (0-8)	TCLP	Solid	1311	
500-121261-19 DU	1314V3-11-B01 (0-1)	TCLP	Solid	1311	

Prep Batch: 365114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	SPLP East	Solid	3010A	364903
500-121261-2	1314V3-01-B36 (8-16)	SPLP East	Solid	3010A	364903
500-121261-3	1314V3-01-B36 (16-24)	SPLP East	Solid	3010A	364903
500-121261-4	1314V3-01-B36 (24-28)	SPLP East	Solid	3010A	364903
500-121261-6	1314V3-02-B01 (5-10)	SPLP East	Solid	3010A	364903
500-121261-10	1314V3-02-B02 (0-6)	SPLP East	Solid	3010A	364903
500-121261-11	1314V3-02-B02 (6-12)	SPLP East	Solid	3010A	364903
500-121261-12	1314V3-02-B02 (6-12)D	SPLP East	Solid	3010A	364903
500-121261-13	1314V3-06-B01 (0-8)	SPLP East	Solid	3010A	364903
500-121261-14	1314V3-06-B02 (0-8)	SPLP East	Solid	3010A	364903
500-121261-15	1314V3-06-B03 (0-4)	SPLP East	Solid	3010A	364903
500-121261-16	1314V3-11-B03 (0-1)	SPLP East	Solid	3010A	364903
500-121261-17	1314V3-11-B03 (0-1)D	SPLP East	Solid	3010A	364903
500-121261-18	1314V3-11-B02 (0-1)	SPLP East	Solid	3010A	364903
500-121261-19	1314V3-11-B01 (0-1)	SPLP East	Solid	3010A	364903
LB 500-364903/1-B	Method Blank	SPLP East	Solid	3010A	364903
LCS 500-365114/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121261-19 MS	1314V3-11-B01 (0-1)	SPLP East	Solid	3010A	364903
500-121261-19 DU	1314V3-11-B01 (0-1)	SPLP East	Solid	3010A	364903

Prep Batch: 365139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	7471B	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	7471B	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	7471B	
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	7471B	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Prep Batch: 365139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	7471B	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	7471B	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	7471B	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	7471B	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	7471B	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	7471B	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	7471B	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	7471B	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	7471B	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	7471B	
MB 500-365139/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-365139/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121261-1 MS	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	
500-121261-1 MSD	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	
500-121261-1 DU	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	

Prep Batch: 365146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	3050B	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	3050B	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	3050B	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	3050B	
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	3050B	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	3050B	
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	3050B	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	3050B	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	3050B	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	3050B	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	3050B	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	3050B	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	3050B	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	3050B	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	3050B	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	3050B	
MB 500-365146/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-365146/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121261-19 MS	1314V3-11-B01 (0-1)	Total/NA	Solid	3050B	
500-121261-19 MSD	1314V3-11-B01 (0-1)	Total/NA	Solid	3050B	
500-121261-19 DU	1314V3-11-B01 (0-1)	Total/NA	Solid	3050B	

Prep Batch: 365242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	3010A	365091
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	3010A	365091
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	3010A	365091
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	3010A	365091
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	3010A	365091
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	3010A	365091
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	3010A	365091
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	3010A	365091
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	3010A	365091

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Prep Batch: 365242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	3010A	365091
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	3010A	365091
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	3010A	365091
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	3010A	365091
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	3010A	365091
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	3010A	365091
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	3010A	365091
LB 500-365091/1-B	Method Blank	TCLP	Solid	3010A	365091
LCS 500-365242/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121261-19 MS	1314V3-11-B01 (0-1)	TCLP	Solid	3010A	365091
500-121261-19 DU	1314V3-11-B01 (0-1)	TCLP	Solid	3010A	365091

Prep Batch: 365288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365091
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	7470A	365091
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	7470A	365091
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	7470A	365091
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	7470A	365091
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	7470A	365091
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	7470A	365091
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	7470A	365091
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	7470A	365091
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	7470A	365091
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	7470A	365091
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	7470A	365091
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	7470A	365091
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	7470A	365091
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	7470A	365091
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	7470A	365091
LB 500-365091/1-C	Method Blank	TCLP	Solid	7470A	365091
MB 500-365288/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-365288/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121261-1 MS	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365091
500-121261-1 DU	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365091

Analysis Batch: 365298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	365139
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	7471B	365139
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	7471B	365139
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	7471B	365139
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	7471B	365139
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	7471B	365139
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	7471B	365139
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	7471B	365139
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	7471B	365139
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	7471B	365139
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	7471B	365139
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	7471B	365139
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	7471B	365139

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Analysis Batch: 365298 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	7471B	365139
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	7471B	365139
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	7471B	365139
MB 500-365139/12-A	Method Blank	Total/NA	Solid	7471B	365139
LCS 500-365139/13-A	Lab Control Sample	Total/NA	Solid	7471B	365139
500-121261-1 MS	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	365139
500-121261-1 MSD	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	365139
500-121261-1 DU	1314V3-01-B36 (0-8)	Total/NA	Solid	7471B	365139

Analysis Batch: 365431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	SPLP East	Solid	6010B	365114
500-121261-2	1314V3-01-B36 (8-16)	SPLP East	Solid	6010B	365114
500-121261-3	1314V3-01-B36 (16-24)	SPLP East	Solid	6010B	365114
500-121261-6	1314V3-02-B01 (5-10)	SPLP East	Solid	6010B	365114
500-121261-10	1314V3-02-B02 (0-6)	SPLP East	Solid	6010B	365114
500-121261-11	1314V3-02-B02 (6-12)	SPLP East	Solid	6010B	365114
500-121261-12	1314V3-02-B02 (6-12)D	SPLP East	Solid	6010B	365114
500-121261-13	1314V3-06-B01 (0-8)	SPLP East	Solid	6010B	365114
500-121261-14	1314V3-06-B02 (0-8)	SPLP East	Solid	6010B	365114
500-121261-15	1314V3-06-B03 (0-4)	SPLP East	Solid	6010B	365114
500-121261-16	1314V3-11-B03 (0-1)	SPLP East	Solid	6010B	365114
500-121261-17	1314V3-11-B03 (0-1)D	SPLP East	Solid	6010B	365114
500-121261-18	1314V3-11-B02 (0-1)	SPLP East	Solid	6010B	365114
LB 500-364903/1-B	Method Blank	SPLP East	Solid	6010B	365114
LCS 500-365114/2-A	Lab Control Sample	Total/NA	Solid	6010B	365114

Analysis Batch: 365435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	6010B	365242
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	6010B	365242
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	6010B	365242
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	6010B	365242
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	6010B	365242
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	6010B	365242
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	6010B	365242
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	6010B	365242
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	6010B	365242
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	6010B	365242
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	6010B	365242
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	6010B	365242
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	6010B	365242
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	6010B	365242
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	6010B	365242
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	6010B	365242
LB 500-365091/1-B	Method Blank	TCLP	Solid	6010B	365242
LCS 500-365242/2-A	Lab Control Sample	Total/NA	Solid	6010B	365242
500-121261-19 MS	1314V3-11-B01 (0-1)	TCLP	Solid	6010B	365242
500-121261-19 DU	1314V3-11-B01 (0-1)	TCLP	Solid	6010B	365242

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Analysis Batch: 365446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	6020A	365242
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	6020A	365242
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	6020A	365242
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	6020A	365242
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	6020A	365242
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	6020A	365242
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	6020A	365242
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	6020A	365242
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	6020A	365242
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	6020A	365242
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	6020A	365242
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	6020A	365242
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	6020A	365242
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	6020A	365242
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	6020A	365242
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	6020A	365242
LB 500-365091/1-B	Method Blank	TCLP	Solid	6020A	365242
LCS 500-365242/2-A	Lab Control Sample	Total/NA	Solid	6020A	365242
500-121261-19 MS	1314V3-11-B01 (0-1)	TCLP	Solid	6020A	365242
500-121261-19 DU	1314V3-11-B01 (0-1)	TCLP	Solid	6020A	365242

Analysis Batch: 365454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-7	1314V3-02-G01	Total Recoverable	Water	6020A	364441
500-121261-8	1314V3-02-G01D	Total Recoverable	Water	6020A	364441

Analysis Batch: 365486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365288
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	7470A	365288
500-121261-3	1314V3-01-B36 (16-24)	TCLP	Solid	7470A	365288
500-121261-4	1314V3-01-B36 (24-28)	TCLP	Solid	7470A	365288
500-121261-5	1314V3-02-B01 (0-5)	TCLP	Solid	7470A	365288
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	7470A	365288
500-121261-10	1314V3-02-B02 (0-6)	TCLP	Solid	7470A	365288
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	7470A	365288
500-121261-12	1314V3-02-B02 (6-12)D	TCLP	Solid	7470A	365288
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	7470A	365288
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	7470A	365288
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	7470A	365288
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	7470A	365288
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	7470A	365288
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	7470A	365288
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	7470A	365288
LB 500-365091/1-C	Method Blank	TCLP	Solid	7470A	365288
MB 500-365288/12-A	Method Blank	Total/NA	Solid	7470A	365288
LCS 500-365288/13-A	Lab Control Sample	Total/NA	Solid	7470A	365288
500-121261-1 MS	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365288
500-121261-1 DU	1314V3-01-B36 (0-8)	TCLP	Solid	7470A	365288

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Analysis Batch: 365635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	6010B	365146
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	6010B	365146
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	6010B	365146
500-121261-4	1314V3-01-B36 (24-28)	SPLP East	Solid	6010B	365114
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	6010B	365146
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	6010B	365146
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	6010B	365146
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	6010B	365146
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	6010B	365146
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	6010B	365146
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	6010B	365146
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	6010B	365146
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	6010B	365146
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	6010B	365146
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	6010B	365146
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19	1314V3-11-B01 (0-1)	SPLP East	Solid	6010B	365114
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
MB 500-365146/1-A	Method Blank	Total/NA	Solid	6010B	365146
LCS 500-365146/2-A	Lab Control Sample	Total/NA	Solid	6010B	365146
500-121261-19 MS	1314V3-11-B01 (0-1)	SPLP East	Solid	6010B	365114
500-121261-19 MS	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19 MSD	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19 DU	1314V3-11-B01 (0-1)	SPLP East	Solid	6010B	365114
500-121261-19 DU	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146

Leach Batch: 365637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	1311	
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	1311	
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	1311	
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	1311	
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	1311	
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	1311	
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	1311	
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	1311	
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	1311	
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	1311	
LB 500-365637/1-B	Method Blank	TCLP	Solid	1311	
500-121261-13 MS	1314V3-06-B01 (0-8)	TCLP	Solid	1311	
500-121261-13 DU	1314V3-06-B01 (0-8)	TCLP	Solid	1311	

Analysis Batch: 365688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	6010B	365146
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	6010B	365146
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	6010B	365146
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	6010B	365146
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	6010B	365146
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	6010B	365146
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	6010B	365146

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Metals (Continued)

Analysis Batch: 365688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	6010B	365146
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	6010B	365146
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19 MS	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19 MSD	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146
500-121261-19 DU	1314V3-11-B01 (0-1)	Total/NA	Solid	6010B	365146

Prep Batch: 365718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	3010A	365637
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	3010A	365637
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	3010A	365637
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	3010A	365637
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	3010A	365637
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	3010A	365637
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	3010A	365637
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	3010A	365637
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	3010A	365637
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	3010A	365637
LB 500-365637/1-B	Method Blank	TCLP	Solid	3010A	365637
LCS 500-365718/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121261-13 MS	1314V3-06-B01 (0-8)	TCLP	Solid	3010A	365637
500-121261-13 DU	1314V3-06-B01 (0-8)	TCLP	Solid	3010A	365637

Analysis Batch: 365876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-2	1314V3-01-B36 (8-16)	TCLP	Solid	6010B	365718
500-121261-6	1314V3-02-B01 (5-10)	TCLP	Solid	6010B	365718
500-121261-11	1314V3-02-B02 (6-12)	TCLP	Solid	6010B	365718
500-121261-13	1314V3-06-B01 (0-8)	TCLP	Solid	6010B	365718
500-121261-14	1314V3-06-B02 (0-8)	TCLP	Solid	6010B	365718
500-121261-15	1314V3-06-B03 (0-4)	TCLP	Solid	6010B	365718
500-121261-16	1314V3-11-B03 (0-1)	TCLP	Solid	6010B	365718
500-121261-17	1314V3-11-B03 (0-1)D	TCLP	Solid	6010B	365718
500-121261-18	1314V3-11-B02 (0-1)	TCLP	Solid	6010B	365718
500-121261-19	1314V3-11-B01 (0-1)	TCLP	Solid	6010B	365718
LB 500-365637/1-B	Method Blank	TCLP	Solid	6010B	365718
LCS 500-365718/2-A	Lab Control Sample	Total/NA	Solid	6010B	365718
500-121261-13 MS	1314V3-06-B01 (0-8)	TCLP	Solid	6010B	365718
500-121261-13 DU	1314V3-06-B01 (0-8)	TCLP	Solid	6010B	365718

General Chemistry

Analysis Batch: 364872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	Moisture	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	Moisture	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	Moisture	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

General Chemistry (Continued)

Analysis Batch: 364872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	Moisture	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	Moisture	
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	Moisture	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	Moisture	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	Moisture	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	Moisture	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	Moisture	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	Moisture	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	Moisture	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	Moisture	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	Moisture	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	Moisture	
500-121261-2 DU	1314V3-01-B36 (8-16)	Total/NA	Solid	Moisture	

Analysis Batch: 365174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121261-1	1314V3-01-B36 (0-8)	Total/NA	Solid	9045D	
500-121261-2	1314V3-01-B36 (8-16)	Total/NA	Solid	9045D	
500-121261-3	1314V3-01-B36 (16-24)	Total/NA	Solid	9045D	
500-121261-4	1314V3-01-B36 (24-28)	Total/NA	Solid	9045D	
500-121261-5	1314V3-02-B01 (0-5)	Total/NA	Solid	9045D	
500-121261-6	1314V3-02-B01 (5-10)	Total/NA	Solid	9045D	
500-121261-10	1314V3-02-B02 (0-6)	Total/NA	Solid	9045D	
500-121261-11	1314V3-02-B02 (6-12)	Total/NA	Solid	9045D	
500-121261-12	1314V3-02-B02 (6-12)D	Total/NA	Solid	9045D	
500-121261-13	1314V3-06-B01 (0-8)	Total/NA	Solid	9045D	
500-121261-14	1314V3-06-B02 (0-8)	Total/NA	Solid	9045D	
500-121261-15	1314V3-06-B03 (0-4)	Total/NA	Solid	9045D	
500-121261-16	1314V3-11-B03 (0-1)	Total/NA	Solid	9045D	
500-121261-17	1314V3-11-B03 (0-1)D	Total/NA	Solid	9045D	
500-121261-18	1314V3-11-B02 (0-1)	Total/NA	Solid	9045D	
500-121261-19	1314V3-11-B01 (0-1)	Total/NA	Solid	9045D	
500-121261-1 DU	1314V3-01-B36 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - VOC

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(71-120)	(70-120)	(71-127)	(75-120)
500-121261-7	1314V3-02-G01	92	91	104	91
500-121261-8	1314V3-02-G01D	89	90	100	93
500-121261-9	1314V3-00-TB03	90	92	105	91
LCS 500-365402/4	Lab Control Sample	90	95	103	91
LCS 500-365839/5	Lab Control Sample	90	96	101	92
MB 500-365402/6	Method Blank	92	92	101	92
MB 500-365839/7	Method Blank	92	92	103	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-120)	(75-120)	(69-134)	(75-123)
500-121261-1	1314V3-01-B36 (0-8)	97	102	105	101
500-121261-2	1314V3-01-B36 (8-16)	105	96	101	102
500-121261-3	1314V3-01-B36 (16-24)	105	99	108	101
500-121261-4	1314V3-01-B36 (24-28)	111	97	103	105
500-121261-5	1314V3-02-B01 (0-5)	112	87	111	104
500-121261-6	1314V3-02-B01 (5-10)	110	97	108	102
500-121261-10	1314V3-02-B02 (0-6)	106	100	110	103
500-121261-11	1314V3-02-B02 (6-12)	109	101	109	103
500-121261-12	1314V3-02-B02 (6-12)D	109	100	109	102
500-121261-13	1314V3-06-B01 (0-8)	137 * X	91	88	124 X
500-121261-14	1314V3-06-B02 (0-8)	110	99	111	106
500-121261-15	1314V3-06-B03 (0-4)	108	99	109	103
500-121261-16	1314V3-11-B03 (0-1)	109	99	108	105
500-121261-17	1314V3-11-B03 (0-1)D	110	98	111	104
500-121261-18	1314V3-11-B02 (0-1)	110	104	114	103
500-121261-19	1314V3-11-B01 (0-1)	108	99	108	105
500-121261-19	1314V3-11-B01 (0-1)	111	97	105	108
LCS 500-364545/5	Lab Control Sample	98	92	94	100
LCS 500-364610/5	Lab Control Sample	105	93	96	105
LCS 500-364836/4	Lab Control Sample	104	90	94	109
LCSD 500-364545/25	Lab Control Sample Dup	103	97	101	106
LCSD 500-364610/6	Lab Control Sample Dup	101	94	96	105
MB 500-364545/6	Method Blank	104	94	95	98
MB 500-364610/8	Method Blank	108	91	92	105
MB 500-364836/6	Method Blank	111	98	104	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121261-1	1314V3-01-B36 (0-8)	102	106	88	87	67	104
500-121261-2	1314V3-01-B36 (8-16)	88	83	82	78	74	96
500-121261-3	1314V3-01-B36 (16-24)	103	104	87	90	67	107
500-121261-4	1314V3-01-B36 (24-28)	95	91	85	83	61	96
500-121261-5	1314V3-02-B01 (0-5)	74	89	78	76	46	90
500-121261-6	1314V3-02-B01 (5-10)	86	89	76	75	68	144
500-121261-6 - DL	1314V3-02-B01 (5-10)	93	72	82	76	69	98
500-121261-10	1314V3-02-B02 (0-6)	95	95	82	83	59	97
500-121261-11	1314V3-02-B02 (6-12)	79	61	70	67	45	84
500-121261-12	1314V3-02-B02 (6-12)D	63	50	52	55	44	77
500-121261-13	1314V3-06-B01 (0-8)	77	77	70	68	49	85
500-121261-14	1314V3-06-B02 (0-8)	90	84	85	83	63	110
500-121261-15	1314V3-06-B03 (0-4)	93	91	81	79	63	103
500-121261-16	1314V3-11-B03 (0-1)	80	76	73	72	58	106
500-121261-17	1314V3-11-B03 (0-1)D	79	80	72	74	62	116
500-121261-18	1314V3-11-B02 (0-1)	84	85	77	76	51	130
500-121261-19	1314V3-11-B01 (0-1)	83	84	75	73	62	95
500-121261-19 MS	1314V3-11-B01 (0-1)	89	102	81	78	74	93
500-121261-19 MSD	1314V3-11-B01 (0-1)	96	107	90	84	79	96
LCS 500-365830/2-A	Lab Control Sample	99	91	88	88	85	93
MB 500-365830/1-A	Method Blank	99	96	90	90	53	106

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (30-150)	FBP (30-123)	2FP (30-110)	NBZ (33-139)	PHL (20-100)	TPH (42-150)
500-121261-7	1314V3-02-G01	102	62	48	62	34	106
500-121261-8	1314V3-02-G01D	116	78	55	73	37	116
LCS 500-364764/2-A	Lab Control Sample	106	78	74	81	58	105
LCSD 500-364764/3-A	Lab Control Sample Dup	101	74	70	79	53	102
MB 500-364764/1-A	Method Blank	81	81	56	81	39	120

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

TPH = Terphenyl-d14

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(41-124)	(47-127)
500-121261-13	1314V3-06-B01 (0-8)	85	97
LCS 500-364935/3-A	Lab Control Sample	74	94
MB 500-364935/1-A	Method Blank	76	96

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - VOC

Lab Sample ID: MB 500-365402/6
Matrix: Water
Analysis Batch: 365402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/16/16 12:46	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/16/16 12:46	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/16/16 12:46	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/16/16 12:46	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/16/16 12:46	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/16/16 12:46	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/16/16 12:46	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/16/16 12:46	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/16/16 12:46	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/16/16 12:46	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/16/16 12:46	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/16/16 12:46	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/16/16 12:46	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/16/16 12:46	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/16/16 12:46	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/16/16 12:46	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/16/16 12:46	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/16/16 12:46	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/16/16 12:46	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/16/16 12:46	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/16/16 12:46	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/16/16 12:46	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/16/16 12:46	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/16/16 12:46	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/16/16 12:46	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/16/16 12:46	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/16/16 12:46	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/16/16 12:46	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/16/16 12:46	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/16/16 12:46	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/16/16 12:46	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/16/16 12:46	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/16/16 12:46	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/16/16 12:46	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/16/16 12:46	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/16/16 12:46	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/16/16 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120		12/16/16 12:46	1
Dibromofluoromethane	92		70 - 120		12/16/16 12:46	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		12/16/16 12:46	1
Toluene-d8 (Surr)	92		75 - 120		12/16/16 12:46	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - VOC (Continued)

Lab Sample ID: LCS 500-365402/4

Matrix: Water

Analysis Batch: 365402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0517		mg/L		103	37 - 141
Benzene	0.0500	0.0447		mg/L		89	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/L		89	70 - 125
Bromoform	0.0500	0.0442		mg/L		88	54 - 128
Bromomethane	0.0500	0.0323		mg/L		65	40 - 150
Carbon disulfide	0.0500	0.0421		mg/L		84	68 - 125
Carbon tetrachloride	0.0500	0.0467		mg/L		93	70 - 125
Chlorobenzene	0.0500	0.0445		mg/L		89	70 - 125
Chloroethane	0.0500	0.0435		mg/L		87	60 - 139
Chloroform	0.0500	0.0451		mg/L		90	70 - 125
Chloromethane	0.0500	0.0579		mg/L		116	60 - 140
cis-1,2-Dichloroethene	0.0500	0.0451		mg/L		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0439		mg/L		88	70 - 125
Dibromochloromethane	0.0500	0.0440		mg/L		88	66 - 125
1,1-Dichloroethane	0.0500	0.0468		mg/L		94	70 - 125
1,2-Dichloroethane	0.0500	0.0476		mg/L		95	70 - 125
1,1-Dichloroethene	0.0500	0.0421		mg/L		84	70 - 125
1,2-Dichloropropane	0.0500	0.0486		mg/L		97	70 - 125
Ethylbenzene	0.0500	0.0441		mg/L		88	70 - 125
2-Hexanone	0.0500	0.0557		mg/L		111	49 - 139
Methyl Ethyl Ketone	0.0500	0.0609		mg/L		122	52 - 142
Methylene Chloride	0.0500	0.0426		mg/L		85	68 - 125
methyl isobutyl ketone	0.0500	0.0528		mg/L		106	47 - 140
Methyl tert-butyl ether	0.0500	0.0458		mg/L		92	67 - 125
Styrene	0.0500	0.0453		mg/L		91	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/L		91	68 - 125
Tetrachloroethene	0.0500	0.0480		mg/L		96	70 - 125
Toluene	0.0500	0.0452		mg/L		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0437		mg/L		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0440		mg/L		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0468		mg/L		94	70 - 125
1,1,2-Trichloroethane	0.0500	0.0440		mg/L		88	70 - 125
Trichloroethene	0.0500	0.0464		mg/L		93	70 - 125
Vinyl acetate	0.0500	0.0414		mg/L		83	30 - 160
Vinyl chloride	0.0500	0.0539		mg/L		108	70 - 126
Xylenes, Total	0.100	0.0896		mg/L		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		71 - 120
Dibromofluoromethane	95		70 - 120
1,2-Dichloroethane-d4 (Surr)	103		71 - 127
Toluene-d8 (Surr)	91		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - VOC (Continued)

Lab Sample ID: MB 500-365839/7

Matrix: Water

Analysis Batch: 365839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			12/20/16 00:34	1
Benzene	<0.00050		0.00050	0.00015	mg/L			12/20/16 00:34	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			12/20/16 00:34	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			12/20/16 00:34	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			12/20/16 00:34	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			12/20/16 00:34	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			12/20/16 00:34	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			12/20/16 00:34	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			12/20/16 00:34	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			12/20/16 00:34	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			12/20/16 00:34	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			12/20/16 00:34	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			12/20/16 00:34	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			12/20/16 00:34	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			12/20/16 00:34	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			12/20/16 00:34	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			12/20/16 00:34	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			12/20/16 00:34	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			12/20/16 00:34	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			12/20/16 00:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			12/20/16 00:34	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			12/20/16 00:34	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			12/20/16 00:34	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			12/20/16 00:34	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			12/20/16 00:34	1
Styrene	<0.0010		0.0010	0.00039	mg/L			12/20/16 00:34	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			12/20/16 00:34	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			12/20/16 00:34	1
Toluene	<0.00050		0.00050	0.00015	mg/L			12/20/16 00:34	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			12/20/16 00:34	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			12/20/16 00:34	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			12/20/16 00:34	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			12/20/16 00:34	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			12/20/16 00:34	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			12/20/16 00:34	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			12/20/16 00:34	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			12/20/16 00:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		71 - 120		12/20/16 00:34	1
Dibromofluoromethane	92		70 - 120		12/20/16 00:34	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 127		12/20/16 00:34	1
Toluene-d8 (Surr)	91		75 - 120		12/20/16 00:34	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - VOC (Continued)

Lab Sample ID: LCS 500-365839/5

Matrix: Water

Analysis Batch: 365839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0438		mg/L		88	37 - 141
Benzene	0.0500	0.0461		mg/L		92	70 - 125
Bromodichloromethane	0.0500	0.0441		mg/L		88	70 - 125
Bromoform	0.0500	0.0427		mg/L		85	54 - 128
Bromomethane	0.0500	0.0304		mg/L		61	40 - 150
Carbon disulfide	0.0500	0.0464		mg/L		93	68 - 125
Carbon tetrachloride	0.0500	0.0474		mg/L		95	70 - 125
Chlorobenzene	0.0500	0.0449		mg/L		90	70 - 125
Chloroethane	0.0500	0.0433		mg/L		87	60 - 139
Chloroform	0.0500	0.0461		mg/L		92	70 - 125
Chloromethane	0.0500	0.0579		mg/L		116	60 - 140
cis-1,2-Dichloroethene	0.0500	0.0453		mg/L		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0443		mg/L		89	70 - 125
Dibromochloromethane	0.0500	0.0433		mg/L		87	66 - 125
1,1-Dichloroethane	0.0500	0.0480		mg/L		96	70 - 125
1,2-Dichloroethane	0.0500	0.0486		mg/L		97	70 - 125
1,1-Dichloroethene	0.0500	0.0458		mg/L		92	70 - 125
1,2-Dichloropropane	0.0500	0.0487		mg/L		97	70 - 125
Ethylbenzene	0.0500	0.0441		mg/L		88	70 - 125
2-Hexanone	0.0500	0.0455		mg/L		91	49 - 139
Methyl Ethyl Ketone	0.0500	0.0491		mg/L		98	52 - 142
Methylene Chloride	0.0500	0.0425		mg/L		85	68 - 125
methyl isobutyl ketone	0.0500	0.0432		mg/L		86	47 - 140
Methyl tert-butyl ether	0.0500	0.0461		mg/L		92	67 - 125
Styrene	0.0500	0.0452		mg/L		90	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0441		mg/L		88	68 - 125
Tetrachloroethene	0.0500	0.0479		mg/L		96	70 - 125
Toluene	0.0500	0.0453		mg/L		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0464		mg/L		93	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0439		mg/L		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0475		mg/L		95	70 - 125
1,1,2-Trichloroethane	0.0500	0.0435		mg/L		87	70 - 125
Trichloroethene	0.0500	0.0464		mg/L		93	70 - 125
Vinyl acetate	0.0500	0.0442		mg/L		88	30 - 160
Vinyl chloride	0.0500	0.0540		mg/L		108	70 - 126
Xylenes, Total	0.100	0.0897		mg/L		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		71 - 120
Dibromofluoromethane	96		70 - 120
1,2-Dichloroethane-d4 (Surr)	101		71 - 127
Toluene-d8 (Surr)	92		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364545/6
Matrix: Solid
Analysis Batch: 364545

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/11/16 11:58	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/11/16 11:58	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/11/16 11:58	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/11/16 11:58	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/11/16 11:58	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/11/16 11:58	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/11/16 11:58	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/11/16 11:58	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/11/16 11:58	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 11:58	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/11/16 11:58	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/11/16 11:58	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/11/16 11:58	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/11/16 11:58	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 11:58	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/11/16 11:58	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/11/16 11:58	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/11/16 11:58	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/11/16 11:58	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/11/16 11:58	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/11/16 11:58	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/11/16 11:58	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/11/16 11:58	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/11/16 11:58	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/11/16 11:58	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/11/16 11:58	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/11/16 11:58	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/11/16 11:58	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/11/16 11:58	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/11/16 11:58	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/11/16 11:58	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/11/16 11:58	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/11/16 11:58	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/11/16 11:58	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/11/16 11:58	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/11/16 11:58	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/11/16 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120		12/11/16 11:58	1
Dibromofluoromethane	94		75 - 120		12/11/16 11:58	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 134		12/11/16 11:58	1
Toluene-d8 (Surr)	98		75 - 123		12/11/16 11:58	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364545/5

Matrix: Solid

Analysis Batch: 364545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0454		mg/Kg		91	40 - 148
Benzene	0.0500	0.0488		mg/Kg		98	70 - 120
Bromodichloromethane	0.0500	0.0495		mg/Kg		99	67 - 120
Bromoform	0.0500	0.0488		mg/Kg		98	50 - 129
Bromomethane	0.0500	0.0499		mg/Kg		100	50 - 134
Carbon disulfide	0.0500	0.0513		mg/Kg		103	67 - 133
Carbon tetrachloride	0.0500	0.0507		mg/Kg		101	65 - 123
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0458		mg/Kg		92	40 - 150
Chloroform	0.0500	0.0508		mg/Kg		102	70 - 120
Chloromethane	0.0500	0.0486		mg/Kg		97	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0506		mg/Kg		101	70 - 120
Dibromochloromethane	0.0500	0.0509		mg/Kg		102	68 - 120
1,1-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0504		mg/Kg		101	65 - 126
1,1-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 122
1,2-Dichloropropane	0.0500	0.0478		mg/Kg		96	70 - 126
Ethylbenzene	0.0500	0.0494		mg/Kg		99	70 - 120
2-Hexanone	0.0500	0.0500		mg/Kg		100	51 - 139
2-Butanone (MEK)	0.0500	0.0440		mg/Kg		88	47 - 138
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0497		mg/Kg		99	51 - 141
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	70 - 121
Styrene	0.0500	0.0495		mg/Kg		99	70 - 121
1,1,2,2-Tetrachloroethane	0.0500	0.0515		mg/Kg		103	70 - 125
Tetrachloroethene	0.0500	0.0498		mg/Kg		100	70 - 122
Toluene	0.0500	0.0499		mg/Kg		100	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	70 - 121
1,1,1-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120
1,1,2-Trichloroethane	0.0500	0.0493		mg/Kg		99	70 - 120
Trichloroethene	0.0500	0.0489		mg/Kg		98	70 - 124
Vinyl acetate	0.0500	0.0374		mg/Kg		75	40 - 150
Vinyl chloride	0.0500	0.0456		mg/Kg		91	64 - 125
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 120
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		69 - 134
Toluene-d8 (Surr)	100		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364545/25

Matrix: Solid

Analysis Batch: 364545

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0403		mg/Kg		81	40 - 148	12	30
Benzene	0.0500	0.0425		mg/Kg		85	70 - 120	14	30
Bromodichloromethane	0.0500	0.0442		mg/Kg		88	67 - 120	11	30
Bromoform	0.0500	0.0429		mg/Kg		86	50 - 129	13	30
Bromomethane	0.0500	0.0493		mg/Kg		99	50 - 134	1	30
Carbon disulfide	0.0500	0.0434		mg/Kg		87	67 - 133	17	30
Carbon tetrachloride	0.0500	0.0425		mg/Kg		85	65 - 123	18	30
Chlorobenzene	0.0500	0.0435		mg/Kg		87	70 - 120	13	30
Chloroethane	0.0500	0.0375		mg/Kg		75	40 - 150	20	30
Chloroform	0.0500	0.0448		mg/Kg		90	70 - 120	13	30
Chloromethane	0.0500	0.0431		mg/Kg		86	63 - 135	12	30
cis-1,2-Dichloroethene	0.0500	0.0433		mg/Kg		87	70 - 120	14	30
cis-1,3-Dichloropropene	0.0500	0.0459		mg/Kg		92	70 - 120	10	30
Dibromochloromethane	0.0500	0.0458		mg/Kg		92	68 - 120	10	30
1,1-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 125	13	30
1,2-Dichloroethane	0.0500	0.0473		mg/Kg		95	65 - 126	6	30
1,1-Dichloroethene	0.0500	0.0427		mg/Kg		85	70 - 122	16	30
1,2-Dichloropropane	0.0500	0.0433		mg/Kg		87	70 - 126	10	30
Ethylbenzene	0.0500	0.0432		mg/Kg		86	70 - 120	14	30
2-Hexanone	0.0500	0.0436		mg/Kg		87	51 - 139	14	30
2-Butanone (MEK)	0.0500	0.0412		mg/Kg		82	47 - 138	7	30
Methylene Chloride	0.0500	0.0430		mg/Kg		86	70 - 121	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0451		mg/Kg		90	51 - 141	10	30
Methyl tert-butyl ether	0.0500	0.0404		mg/Kg		81	70 - 121	9	30
Styrene	0.0500	0.0441		mg/Kg		88	70 - 121	11	30
1,1,1,2-Tetrachloroethane	0.0500	0.0473		mg/Kg		95	70 - 125	9	30
Tetrachloroethene	0.0500	0.0423		mg/Kg		85	70 - 122	16	30
Toluene	0.0500	0.0441		mg/Kg		88	70 - 121	12	30
trans-1,2-Dichloroethene	0.0500	0.0435		mg/Kg		87	70 - 120	17	30
trans-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	70 - 121	11	30
1,1,1-Trichloroethane	0.0500	0.0420		mg/Kg		84	70 - 120	18	30
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 120	4	30
Trichloroethene	0.0500	0.0417		mg/Kg		83	70 - 124	16	30
Vinyl acetate	0.0500	0.0329		mg/Kg		66	40 - 150	13	30
Vinyl chloride	0.0500	0.0400		mg/Kg		80	64 - 125	13	30
Xylenes, Total	0.100	0.0896		mg/Kg		90	70 - 123	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		69 - 134
Toluene-d8 (Surr)	106		75 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364610/8

Matrix: Solid

Analysis Batch: 364610

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/12/16 13:00	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/12/16 13:00	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/12/16 13:00	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/12/16 13:00	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/12/16 13:00	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/12/16 13:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/12/16 13:00	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/12/16 13:00	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/12/16 13:00	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 13:00	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/12/16 13:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/12/16 13:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/12/16 13:00	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/12/16 13:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 13:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/12/16 13:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 13:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/12/16 13:00	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/12/16 13:00	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/12/16 13:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/12/16 13:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/12/16 13:00	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/12/16 13:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/12/16 13:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/12/16 13:00	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/12/16 13:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/12/16 13:00	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/12/16 13:00	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/12/16 13:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/12/16 13:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/12/16 13:00	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/12/16 13:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/12/16 13:00	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/12/16 13:00	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/12/16 13:00	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/12/16 13:00	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/12/16 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120		12/12/16 13:00	1
Dibromofluoromethane	91		75 - 120		12/12/16 13:00	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 134		12/12/16 13:00	1
Toluene-d8 (Surr)	105		75 - 123		12/12/16 13:00	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364610/5

Matrix: Solid

Analysis Batch: 364610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0450		mg/Kg		90	40 - 148
Benzene	0.0500	0.0459		mg/Kg		92	70 - 120
Bromodichloromethane	0.0500	0.0471		mg/Kg		94	67 - 120
Bromoform	0.0500	0.0445		mg/Kg		89	50 - 129
Bromomethane	0.0500	0.0481		mg/Kg		96	50 - 134
Carbon disulfide	0.0500	0.0502		mg/Kg		100	67 - 133
Carbon tetrachloride	0.0500	0.0479		mg/Kg		96	65 - 123
Chlorobenzene	0.0500	0.0463		mg/Kg		93	70 - 120
Chloroethane	0.0500	0.0672		mg/Kg		134	40 - 150
Chloroform	0.0500	0.0480		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0506		mg/Kg		101	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0457		mg/Kg		91	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 120
Dibromochloromethane	0.0500	0.0459		mg/Kg		92	68 - 120
1,1-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0464		mg/Kg		93	65 - 126
1,1-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 122
1,2-Dichloropropane	0.0500	0.0441		mg/Kg		88	70 - 126
Ethylbenzene	0.0500	0.0478		mg/Kg		96	70 - 120
2-Hexanone	0.0500	0.0460		mg/Kg		92	51 - 139
2-Butanone (MEK)	0.0500	0.0435		mg/Kg		87	47 - 138
Methylene Chloride	0.0500	0.0528		mg/Kg		106	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0476		mg/Kg		95	51 - 141
Methyl tert-butyl ether	0.0500	0.0468		mg/Kg		94	70 - 121
Styrene	0.0500	0.0471		mg/Kg		94	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0490		mg/Kg		98	70 - 125
Tetrachloroethene	0.0500	0.0470		mg/Kg		94	70 - 122
Toluene	0.0500	0.0475		mg/Kg		95	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0471		mg/Kg		94	70 - 121
1,1,1-Trichloroethane	0.0500	0.0493		mg/Kg		99	70 - 120
1,1,2-Trichloroethane	0.0500	0.0451		mg/Kg		90	70 - 120
Trichloroethene	0.0500	0.0456		mg/Kg		91	70 - 124
Vinyl acetate	0.0500	0.0385		mg/Kg		77	40 - 150
Vinyl chloride	0.0500	0.0522		mg/Kg		104	64 - 125
Xylenes, Total	0.100	0.0987		mg/Kg		99	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 120
Dibromofluoromethane	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		69 - 134
Toluene-d8 (Surr)	105		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364610/6

Matrix: Solid

Analysis Batch: 364610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0512		mg/Kg		102	40 - 148	13	30
Benzene	0.0500	0.0519		mg/Kg		104	70 - 120	12	30
Bromodichloromethane	0.0500	0.0519		mg/Kg		104	67 - 120	10	30
Bromoform	0.0500	0.0500		mg/Kg		100	50 - 129	12	30
Bromomethane	0.0500	0.0461		mg/Kg		92	50 - 134	4	30
Carbon disulfide	0.0500	0.0572		mg/Kg		114	67 - 133	13	30
Carbon tetrachloride	0.0500	0.0552		mg/Kg		110	65 - 123	14	30
Chlorobenzene	0.0500	0.0521		mg/Kg		104	70 - 120	12	30
Chloroethane	0.0500	0.0608		mg/Kg		122	40 - 150	10	30
Chloroform	0.0500	0.0541		mg/Kg		108	70 - 120	12	30
Chloromethane	0.0500	0.0472		mg/Kg		94	63 - 135	7	30
cis-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 120	15	30
cis-1,3-Dichloropropene	0.0500	0.0528		mg/Kg		106	70 - 120	9	30
Dibromochloromethane	0.0500	0.0510		mg/Kg		102	68 - 120	11	30
1,1-Dichloroethane	0.0500	0.0542		mg/Kg		108	70 - 125	12	30
1,2-Dichloroethane	0.0500	0.0540		mg/Kg		108	65 - 126	15	30
1,1-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 122	14	30
1,2-Dichloropropane	0.0500	0.0502		mg/Kg		100	70 - 126	13	30
Ethylbenzene	0.0500	0.0534		mg/Kg		107	70 - 120	11	30
2-Hexanone	0.0500	0.0522		mg/Kg		104	51 - 139	13	30
2-Butanone (MEK)	0.0500	0.0495		mg/Kg		99	47 - 138	13	30
Methylene Chloride	0.0500	0.0591		mg/Kg		118	70 - 121	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0523		mg/Kg		105	51 - 141	9	30
Methyl tert-butyl ether	0.0500	0.0533		mg/Kg		107	70 - 121	13	30
Styrene	0.0500	0.0535		mg/Kg		107	70 - 121	13	30
1,1,1,2-Tetrachloroethane	0.0500	0.0538		mg/Kg		108	70 - 125	9	30
Tetrachloroethene	0.0500	0.0523		mg/Kg		105	70 - 122	11	30
Toluene	0.0500	0.0536		mg/Kg		107	70 - 121	12	30
trans-1,2-Dichloroethene	0.0500	0.0566		mg/Kg		113	70 - 120	16	30
trans-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	70 - 121	10	30
1,1,1-Trichloroethane	0.0500	0.0553		mg/Kg		111	70 - 120	12	30
1,1,2-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 120	11	30
Trichloroethene	0.0500	0.0511		mg/Kg		102	70 - 124	11	30
Vinyl acetate	0.0500	0.0326		mg/Kg		65	40 - 150	17	30
Vinyl chloride	0.0500	0.0493		mg/Kg		99	64 - 125	6	30
Xylenes, Total	0.100	0.110		mg/Kg		110	70 - 123	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		70 - 120
Dibromofluoromethane	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		69 - 134
Toluene-d8 (Surr)	105		75 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364836/6

Matrix: Solid

Analysis Batch: 364836

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/13/16 13:23	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/13/16 13:23	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/13/16 13:23	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/13/16 13:23	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/13/16 13:23	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/13/16 13:23	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/13/16 13:23	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/13/16 13:23	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/13/16 13:23	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 13:23	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/13/16 13:23	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/13/16 13:23	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/13/16 13:23	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/13/16 13:23	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 13:23	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/13/16 13:23	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 13:23	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/13/16 13:23	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/13/16 13:23	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/13/16 13:23	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/13/16 13:23	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/13/16 13:23	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/13/16 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/13/16 13:23	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/13/16 13:23	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/13/16 13:23	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/13/16 13:23	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/13/16 13:23	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/13/16 13:23	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/13/16 13:23	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/13/16 13:23	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/13/16 13:23	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/13/16 13:23	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/13/16 13:23	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/13/16 13:23	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/13/16 13:23	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/13/16 13:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120		12/13/16 13:23	1
Dibromofluoromethane	98		75 - 120		12/13/16 13:23	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134		12/13/16 13:23	1
Toluene-d8 (Surr)	106		75 - 123		12/13/16 13:23	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364836/4

Matrix: Solid

Analysis Batch: 364836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0432		mg/Kg		86	40 - 148
Benzene	0.0500	0.0463		mg/Kg		93	70 - 120
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	67 - 120
Bromoform	0.0500	0.0415		mg/Kg		83	50 - 129
Bromomethane	0.0500	0.0507		mg/Kg		101	50 - 134
Carbon disulfide	0.0500	0.0510		mg/Kg		102	67 - 133
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	65 - 123
Chlorobenzene	0.0500	0.0472		mg/Kg		94	70 - 120
Chloroethane	0.0500	0.0672		mg/Kg		134	40 - 150
Chloroform	0.0500	0.0480		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0492		mg/Kg		98	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0453		mg/Kg		91	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 120
Dibromochloromethane	0.0500	0.0458		mg/Kg		92	68 - 120
1,1-Dichloroethane	0.0500	0.0472		mg/Kg		94	70 - 125
1,2-Dichloroethane	0.0500	0.0478		mg/Kg		96	65 - 126
1,1-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 122
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 126
Ethylbenzene	0.0500	0.0488		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0421		mg/Kg		84	51 - 139
2-Butanone (MEK)	0.0500	0.0429		mg/Kg		86	47 - 138
Methylene Chloride	0.0500	0.0446		mg/Kg		89	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0449		mg/Kg		90	51 - 141
Methyl tert-butyl ether	0.0500	0.0452		mg/Kg		90	70 - 121
Styrene	0.0500	0.0471		mg/Kg		94	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0483		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0494		mg/Kg		99	70 - 122
Toluene	0.0500	0.0491		mg/Kg		98	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0492		mg/Kg		98	70 - 121
1,1,1-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 120
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0456		mg/Kg		91	70 - 124
Vinyl acetate	0.0500	0.0469		mg/Kg		94	40 - 150
Vinyl chloride	0.0500	0.0521		mg/Kg		104	64 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 120
Dibromofluoromethane	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		69 - 134
Toluene-d8 (Surr)	109		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364764/1-A

Matrix: Water

Analysis Batch: 364917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/13/16 23:06	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		12/12/16 21:45	12/13/16 23:06	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		12/12/16 21:45	12/13/16 23:06	1
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		12/12/16 21:45	12/13/16 23:06	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		12/12/16 21:45	12/13/16 23:06	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		12/12/16 21:45	12/13/16 23:06	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		12/12/16 21:45	12/13/16 23:06	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		12/12/16 21:45	12/13/16 23:06	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Nitrophenol	<0.016		0.016	0.0059	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		12/12/16 21:45	12/13/16 23:06	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		12/12/16 21:45	12/13/16 23:06	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		12/12/16 21:45	12/13/16 23:06	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		12/12/16 21:45	12/13/16 23:06	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		12/12/16 21:45	12/13/16 23:06	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		12/12/16 21:45	12/13/16 23:06	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		12/12/16 21:45	12/13/16 23:06	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		12/12/16 21:45	12/13/16 23:06	1
Diethyl phthalate	<0.0016		0.0016	0.00029	mg/L		12/12/16 21:45	12/13/16 23:06	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		12/12/16 21:45	12/13/16 23:06	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00058	mg/L		12/12/16 21:45	12/13/16 23:06	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		12/12/16 21:45	12/13/16 23:06	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		12/12/16 21:45	12/13/16 23:06	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		12/12/16 21:45	12/13/16 23:06	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		12/12/16 21:45	12/13/16 23:06	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		12/12/16 21:45	12/13/16 23:06	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		12/12/16 21:45	12/13/16 23:06	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		12/12/16 21:45	12/13/16 23:06	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		12/12/16 21:45	12/13/16 23:06	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		12/12/16 21:45	12/13/16 23:06	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		12/12/16 21:45	12/13/16 23:06	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		12/12/16 21:45	12/13/16 23:06	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		12/12/16 21:45	12/13/16 23:06	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364764/1-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364764

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		12/12/16 21:45	12/13/16 23:06	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		12/12/16 21:45	12/13/16 23:06	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		12/12/16 21:45	12/13/16 23:06	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		12/12/16 21:45	12/13/16 23:06	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		12/12/16 21:45	12/13/16 23:06	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		12/12/16 21:45	12/13/16 23:06	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		12/12/16 21:45	12/13/16 23:06	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		12/12/16 21:45	12/13/16 23:06	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		12/12/16 21:45	12/13/16 23:06	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		12/12/16 21:45	12/13/16 23:06	1
N-Nitrosodiphenylamine	<0.00080		0.00080	0.00030	mg/L		12/12/16 21:45	12/13/16 23:06	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		12/12/16 21:45	12/13/16 23:06	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		12/12/16 21:45	12/13/16 23:06	1
Phenol	<0.0040		0.0040	0.00054	mg/L		12/12/16 21:45	12/13/16 23:06	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		12/12/16 21:45	12/13/16 23:06	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		12/12/16 21:45	12/13/16 23:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	56		30 - 110	12/12/16 21:45	12/13/16 23:06	1
Nitrobenzene-d5	81		33 - 139	12/12/16 21:45	12/13/16 23:06	1
2-Fluorobiphenyl	81		30 - 123	12/12/16 21:45	12/13/16 23:06	1
2,4,6-Tribromophenol	81		30 - 150	12/12/16 21:45	12/13/16 23:06	1
Phenol-d5	39		20 - 100	12/12/16 21:45	12/13/16 23:06	1
Terphenyl-d14	120		42 - 150	12/12/16 21:45	12/13/16 23:06	1

Lab Sample ID: LCS 500-364764/2-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	0.0320	0.0219		mg/L		68	21 - 110
1,4-Dichlorobenzene	0.0320	0.0219		mg/L		68	22 - 110
1,2-Dichlorobenzene	0.0320	0.0222		mg/L		69	24 - 110
2,2'-oxybis[1-chloropropane]	0.0320	0.0207		mg/L		65	34 - 110
1,2,4-Trichlorobenzene	0.0320	0.0224		mg/L		70	25 - 110
2,4-Dimethylphenol	0.0320	0.0155		mg/L		48	42 - 115
2-Chlorophenol	0.0320	0.0269		mg/L		84	49 - 110
2,4-Dichlorophenol	0.0320	0.0295		mg/L		92	53 - 123
2-Methylphenol	0.0320	0.0247		mg/L		77	49 - 113
2,4,6-Trichlorophenol	0.0320	0.0291		mg/L		91	61 - 120
2,4,5-Trichlorophenol	0.0320	0.0288		mg/L		90	63 - 121
2-Methylnaphthalene	0.0320	0.0249		mg/L		78	32 - 110
2-Nitroaniline	0.0320	0.0312		mg/L		97	61 - 126
2-Chloronaphthalene	0.0320	0.0272		mg/L		85	38 - 110
2,6-Dinitrotoluene	0.0320	0.0338		mg/L		106	66 - 125
4-Chloro-3-methylphenol	0.0320	0.0307		mg/L		96	63 - 120
2-Nitrophenol	0.0320	0.0293		mg/L		92	51 - 120
4-Chloroaniline	0.0320	0.0255		mg/L		80	15 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364764/2-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	0.0320	0.0277		mg/L		87	42 - 134
2,4-Dinitrophenol	0.0640	0.0560		mg/L		87	20 - 140
2,4-Dinitrotoluene	0.0320	0.0344		mg/L		108	67 - 131
Acenaphthylene	0.0320	0.0276		mg/L		86	48 - 110
Acenaphthene	0.0320	0.0290		mg/L		91	41 - 112
4-Nitrophenol	0.0640	0.0373		mg/L		58	21 - 110
4-Nitroaniline	0.0320	0.0331		mg/L		103	40 - 142
4-Bromophenyl phenyl ether	0.0320	0.0317		mg/L		99	60 - 124
Bis(2-chloroethoxy)methane	0.0320	0.0276		mg/L		86	55 - 115
Bis(2-chloroethyl)ether	0.0320	0.0260		mg/L		81	46 - 110
4-Chlorophenyl phenyl ether	0.0320	0.0310		mg/L		97	55 - 115
4,6-Dinitro-2-methylphenol	0.0640	0.0591		mg/L		92	34 - 152
Anthracene	0.0320	0.0290		mg/L		91	65 - 118
Dibenzofuran	0.0320	0.0300		mg/L		94	54 - 111
Carbazole	0.0320	0.0324		mg/L		101	71 - 132
Diethyl phthalate	0.0320	0.0307		mg/L		96	64 - 126
Dimethyl phthalate	0.0320	0.0308		mg/L		96	66 - 120
Di-n-butyl phthalate	0.0320	0.0308		mg/L		96	67 - 125
Butyl benzyl phthalate	0.0320	0.0321		mg/L		100	63 - 127
Fluoranthene	0.0320	0.0314		mg/L		98	68 - 127
Benzo[a]anthracene	0.0320	0.0300		mg/L		94	69 - 121
Fluorene	0.0320	0.0299		mg/L		94	54 - 113
Chrysene	0.0320	0.0315		mg/L		99	70 - 126
Hexachlorobenzene	0.0320	0.0309		mg/L		97	63 - 127
3,3'-Dichlorobenzidine	0.0320	0.0164	*	mg/L		51	57 - 145
Hexachlorobutadiene	0.0320	0.0217		mg/L		68	20 - 110
Bis(2-ethylhexyl) phthalate	0.0320	0.0321		mg/L		100	60 - 132
Hexachlorocyclopentadiene	0.0320	0.0202		mg/L		63	10 - 110
Di-n-octyl phthalate	0.0320	0.0340		mg/L		106	63 - 133
Hexachloroethane	0.0320	0.0205		mg/L		64	20 - 110
Benzo[b]fluoranthene	0.0320	0.0349		mg/L		109	66 - 133
Benzo[k]fluoranthene	0.0320	0.0337		mg/L		105	64 - 134
Isophorone	0.0320	0.0261		mg/L		81	55 - 120
Benzo[a]pyrene	0.0320	0.0317		mg/L		99	69 - 130
Naphthalene	0.0320	0.0242		mg/L		76	32 - 110
Indeno[1,2,3-cd]pyrene	0.0320	0.0330		mg/L		103	52 - 150
Nitrobenzene	0.0320	0.0271		mg/L		85	49 - 116
Dibenz(a,h)anthracene	0.0320	0.0388		mg/L		121	59 - 145
Benzo[g,h,i]perylene	0.0320	0.0318		mg/L		99	47 - 145
N-Nitrosodi-n-propylamine	0.0320	0.0277		mg/L		87	52 - 122
N-Nitrosodiphenylamine	0.0320	0.0222		mg/L		69	63 - 117
Pentachlorophenol	0.0640	0.0624		mg/L		98	29 - 138
Phenanthrene	0.0320	0.0301		mg/L		94	63 - 121
Phenol	0.0320	0.0193		mg/L		60	33 - 100
Pyrene	0.0320	0.0304		mg/L		95	65 - 122
3 & 4 Methylphenol	0.0320	0.0256		mg/L		80	49 - 114

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364764/2-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364764

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	74		30 - 110
Nitrobenzene-d5	81		33 - 139
2-Fluorobiphenyl	78		30 - 123
2,4,6-Tribromophenol	106		30 - 150
Phenol-d5	58		20 - 100
Terphenyl-d14	105		42 - 150

Lab Sample ID: LCSD 500-364764/3-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 364764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	0.0320	0.0189		mg/L		59	21 - 110	15	20
1,4-Dichlorobenzene	0.0320	0.0194		mg/L		61	22 - 110	12	20
1,2-Dichlorobenzene	0.0320	0.0197		mg/L		62	24 - 110	12	20
2,2'-oxybis[1-chloropropane]	0.0320	0.0197		mg/L		62	34 - 110	5	20
1,2,4-Trichlorobenzene	0.0320	0.0199		mg/L		62	25 - 110	12	20
2,4-Dimethylphenol	0.0320	0.0230	*	mg/L		72	42 - 115	39	20
2-Chlorophenol	0.0320	0.0256		mg/L		80	49 - 110	5	20
2,4-Dichlorophenol	0.0320	0.0275		mg/L		86	53 - 123	7	20
2-Methylphenol	0.0320	0.0250		mg/L		78	49 - 113	1	20
2,4,6-Trichlorophenol	0.0320	0.0274		mg/L		86	61 - 120	6	20
2,4,5-Trichlorophenol	0.0320	0.0273		mg/L		85	63 - 121	5	20
2-Methylnaphthalene	0.0320	0.0229		mg/L		71	32 - 110	8	20
2-Nitroaniline	0.0320	0.0297		mg/L		93	61 - 126	5	20
2-Chloronaphthalene	0.0320	0.0251		mg/L		79	38 - 110	8	20
2,6-Dinitrotoluene	0.0320	0.0318		mg/L		99	66 - 125	6	20
4-Chloro-3-methylphenol	0.0320	0.0294		mg/L		92	63 - 120	4	20
2-Nitrophenol	0.0320	0.0275		mg/L		86	51 - 120	6	20
4-Chloroaniline	0.0320	0.0233		mg/L		73	15 - 125	9	20
3-Nitroaniline	0.0320	0.0258		mg/L		81	42 - 134	7	20
2,4-Dinitrophenol	0.0640	0.0499		mg/L		78	20 - 140	11	20
2,4-Dinitrotoluene	0.0320	0.0326		mg/L		102	67 - 131	6	20
Acenaphthylene	0.0320	0.0261		mg/L		82	48 - 110	6	20
Acenaphthene	0.0320	0.0272		mg/L		85	41 - 112	6	20
4-Nitrophenol	0.0640	0.0338		mg/L		53	21 - 110	10	20
4-Nitroaniline	0.0320	0.0324		mg/L		101	40 - 142	2	20
4-Bromophenyl phenyl ether	0.0320	0.0299		mg/L		93	60 - 124	6	20
Bis(2-chloroethoxy)methane	0.0320	0.0268		mg/L		84	55 - 115	3	20
Bis(2-chloroethyl)ether	0.0320	0.0248		mg/L		78	46 - 110	5	20
4-Chlorophenyl phenyl ether	0.0320	0.0292		mg/L		91	55 - 115	6	20
4,6-Dinitro-2-methylphenol	0.0640	0.0572		mg/L		89	34 - 152	3	20
Anthracene	0.0320	0.0285		mg/L		89	65 - 118	2	20
Dibenzofuran	0.0320	0.0281		mg/L		88	54 - 111	6	20
Carbazole	0.0320	0.0320		mg/L		100	71 - 132	1	20
Diethyl phthalate	0.0320	0.0294		mg/L		92	64 - 126	4	20
Dimethyl phthalate	0.0320	0.0293		mg/L		92	66 - 120	5	20
Di-n-butyl phthalate	0.0320	0.0298		mg/L		93	67 - 125	3	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364764/3-A
Matrix: Water
Analysis Batch: 364917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 364764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	0.0320	0.0309		mg/L		97	63 - 127	4	20
Fluoranthene	0.0320	0.0307		mg/L		96	68 - 127	3	20
Benzo[a]anthracene	0.0320	0.0292		mg/L		91	69 - 121	3	20
Fluorene	0.0320	0.0289		mg/L		90	54 - 113	3	20
Chrysene	0.0320	0.0303		mg/L		95	70 - 126	4	20
Hexachlorobenzene	0.0320	0.0298		mg/L		93	63 - 127	4	20
3,3'-Dichlorobenzidine	0.0320	0.0293	*	mg/L		92	57 - 145	57	20
Hexachlorobutadiene	0.0320	0.0192		mg/L		60	20 - 110	12	20
Bis(2-ethylhexyl) phthalate	0.0320	0.0310		mg/L		97	60 - 132	3	20
Hexachlorocyclopentadiene	0.0320	0.0168		mg/L		53	10 - 110	18	20
Di-n-octyl phthalate	0.0320	0.0333		mg/L		104	63 - 133	2	20
Hexachloroethane	0.0320	0.0179		mg/L		56	20 - 110	14	20
Benzo[b]fluoranthene	0.0320	0.0333		mg/L		104	66 - 133	5	20
Benzo[k]fluoranthene	0.0320	0.0320		mg/L		100	64 - 134	5	20
Isophorone	0.0320	0.0249		mg/L		78	55 - 120	4	20
Benzo[a]pyrene	0.0320	0.0333		mg/L		104	69 - 130	5	20
Naphthalene	0.0320	0.0218		mg/L		68	32 - 110	11	20
Indeno[1,2,3-cd]pyrene	0.0320	0.0313		mg/L		98	52 - 150	5	20
Nitrobenzene	0.0320	0.0261		mg/L		81	49 - 116	4	20
Dibenz(a,h)anthracene	0.0320	0.0370		mg/L		116	59 - 145	5	20
Benzo[g,h,i]perylene	0.0320	0.0297		mg/L		93	47 - 145	7	20
N-Nitrosodi-n-propylamine	0.0320	0.0266		mg/L		83	52 - 122	4	20
N-Nitrosodiphenylamine	0.0320	0.0287	*	mg/L		90	63 - 117	25	20
Pentachlorophenol	0.0640	0.0533		mg/L		83	29 - 138	16	20
Phenanthrene	0.0320	0.0283		mg/L		89	63 - 121	6	20
Phenol	0.0320	0.0181		mg/L		57	33 - 100	7	20
Pyrene	0.0320	0.0288		mg/L		90	65 - 122	6	20
3 & 4 Methylphenol	0.0320	0.0250		mg/L		78	49 - 114	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorophenol	70		30 - 110
Nitrobenzene-d5	79		33 - 139
2-Fluorobiphenyl	74		30 - 123
2,4,6-Tribromophenol	101		30 - 150
Phenol-d5	53		20 - 100
Terphenyl-d14	102		42 - 150

Lab Sample ID: MB 500-365830/1-A
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/19/16 16:12	12/20/16 11:57	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365830/1-A
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365830

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/19/16 16:12	12/20/16 11:57	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365830/1-A
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Phenol	<0.17		0.17	0.074	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/19/16 16:12	12/20/16 11:57	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/19/16 16:12	12/20/16 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/19/16 16:12	12/20/16 11:57	1
Nitrobenzene-d5	90		33 - 124	12/19/16 16:12	12/20/16 11:57	1
2-Fluorobiphenyl	90		42 - 115	12/19/16 16:12	12/20/16 11:57	1
2,4,6-Tribromophenol	53		25 - 130	12/19/16 16:12	12/20/16 11:57	1
Phenol-d5	96		36 - 123	12/19/16 16:12	12/20/16 11:57	1
Terphenyl-d14	106		25 - 150	12/19/16 16:12	12/20/16 11:57	1

Lab Sample ID: LCS 500-365830/2-A
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		82	56 - 110
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	57 - 110
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	56 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.21		mg/Kg		91	22 - 133
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	60 - 116
2,4-Dimethylphenol	1.33	1.14		mg/Kg		85	50 - 120
2-Chlorophenol	1.33	1.23		mg/Kg		92	57 - 117
2,4-Dichlorophenol	1.33	1.12		mg/Kg		84	61 - 116
2-Methylphenol	1.33	1.13		mg/Kg		85	53 - 123
2,4,6-Trichlorophenol	1.33	0.991		mg/Kg		74	50 - 120
2,4,5-Trichlorophenol	1.33	0.893		mg/Kg		67	42 - 119
2-Methylnaphthalene	1.33	1.13		mg/Kg		85	55 - 120
2-Nitroaniline	1.33	1.17		mg/Kg		88	52 - 121
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	57 - 112
2,6-Dinitrotoluene	1.33	1.17		mg/Kg		88	57 - 118
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	59 - 117
2-Nitrophenol	1.33	1.18		mg/Kg		88	58 - 121
4-Chloroaniline	1.33	1.25		mg/Kg		94	10 - 150
3-Nitroaniline	1.33	1.26		mg/Kg		94	20 - 144
2,4-Dinitrophenol	2.67	<0.67	*	mg/Kg		0	10 - 110
2,4-Dinitrotoluene	1.33	1.18		mg/Kg		89	59 - 119
Acenaphthylene	1.33	1.09		mg/Kg		82	57 - 116
Acenaphthene	1.33	1.16		mg/Kg		87	52 - 113
4-Nitrophenol	2.67	1.62		mg/Kg		61	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365830/2-A
Matrix: Solid
Analysis Batch: 365886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1.33	1.51		mg/Kg		113	55 - 146
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		88	61 - 124
Bis(2-chloroethoxy)methane	1.33	1.16		mg/Kg		87	59 - 116
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	53 - 116
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	61 - 111
4,6-Dinitro-2-methylphenol	2.67	0.345	J	mg/Kg		13	10 - 110
Anthracene	1.33	1.16		mg/Kg		87	57 - 118
Dibenzofuran	1.33	1.18		mg/Kg		89	59 - 110
Carbazole	1.33	1.40		mg/Kg		105	65 - 137
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 117
Dimethyl phthalate	1.33	1.17		mg/Kg		88	60 - 112
Di-n-butyl phthalate	1.33	1.18		mg/Kg		88	61 - 123
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	61 - 115
Fluoranthene	1.33	1.13		mg/Kg		85	61 - 124
Benzo[a]anthracene	1.33	1.10		mg/Kg		83	63 - 115
Fluorene	1.33	1.16		mg/Kg		87	56 - 115
Chrysene	1.33	1.11		mg/Kg		83	63 - 118
Hexachlorobenzene	1.33	1.21		mg/Kg		91	62 - 126
3,3'-Dichlorobenzidine	1.33	1.00		mg/Kg		75	40 - 110
Hexachlorobutadiene	1.33	1.19		mg/Kg		89	56 - 120
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		89	62 - 117
Hexachlorocyclopentadiene	1.33	0.427	J	mg/Kg		32	10 - 116
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	58 - 129
Hexachloroethane	1.33	1.14		mg/Kg		86	54 - 111
Benzo[b]fluoranthene	1.33	1.12		mg/Kg		84	61 - 123
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	59 - 125
Isophorone	1.33	1.12		mg/Kg		84	54 - 120
Benzo[a]pyrene	1.33	1.18		mg/Kg		89	64 - 122
Naphthalene	1.33	1.16		mg/Kg		87	58 - 116
Indeno[1,2,3-cd]pyrene	1.33	1.19		mg/Kg		89	50 - 149
Nitrobenzene	1.33	1.21		mg/Kg		91	56 - 121
Dibenz(a,h)anthracene	1.33	1.22		mg/Kg		92	61 - 134
Benzo[g,h,i]perylene	1.33	1.21		mg/Kg		90	55 - 134
N-Nitrosodi-n-propylamine	1.33	1.19		mg/Kg		89	56 - 119
N-Nitrosodiphenylamine	1.33	1.18		mg/Kg		88	62 - 117
Pentachlorophenol	2.67	0.903		mg/Kg		34	12 - 116
Phenanthrene	1.33	1.16		mg/Kg		87	58 - 125
Phenol	1.33	1.32		mg/Kg		99	55 - 118
Pyrene	1.33	1.12		mg/Kg		84	60 - 115
3 & 4 Methylphenol	1.33	1.20		mg/Kg		90	55 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	99		40 - 130
Nitrobenzene-d5	88		33 - 124
2-Fluorobiphenyl	88		42 - 115
2,4,6-Tribromophenol	85		25 - 130
Phenol-d5	91		36 - 123
Terphenyl-d14	93		25 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365896

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365830
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	<0.19		1.48	1.02		mg/Kg	☼	69	56 - 110
1,4-Dichlorobenzene	<0.19		1.48	1.05		mg/Kg	☼	71	57 - 110
1,2-Dichlorobenzene	<0.19		1.48	1.07		mg/Kg	☼	72	56 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.48	1.22		mg/Kg	☼	82	22 - 133
1,2,4-Trichlorobenzene	<0.19		1.48	1.08		mg/Kg	☼	73	60 - 116
2,4-Dimethylphenol	<0.37		1.48	1.12		mg/Kg	☼	76	50 - 120
2-Chlorophenol	<0.19		1.48	1.28		mg/Kg	☼	86	57 - 117
2,4-Dichlorophenol	<0.37		1.48	1.28		mg/Kg	☼	86	61 - 116
2-Methylphenol	<0.19		1.48	1.24		mg/Kg	☼	84	53 - 123
2,4,6-Trichlorophenol	<0.37		1.48	1.10		mg/Kg	☼	74	50 - 120
2,4,5-Trichlorophenol	<0.37		1.48	1.28		mg/Kg	☼	87	42 - 119
2-Methylnaphthalene	<0.075		1.48	1.20		mg/Kg	☼	81	55 - 120
2-Nitroaniline	<0.19		1.48	1.67		mg/Kg	☼	113	52 - 121
2-Chloronaphthalene	<0.19		1.48	1.26		mg/Kg	☼	85	57 - 112
2,6-Dinitrotoluene	<0.19		1.48	1.35		mg/Kg	☼	91	57 - 118
4-Chloro-3-methylphenol	<0.37		1.48	1.46		mg/Kg	☼	98	59 - 117
2-Nitrophenol	<0.37		1.48	1.26		mg/Kg	☼	85	58 - 121
4-Chloroaniline	<0.75		1.48	0.947		mg/Kg	☼	64	10 - 150
3-Nitroaniline	<0.37		1.48	1.06		mg/Kg	☼	72	20 - 144
2,4-Dinitrophenol	<0.75 *		2.96	2.64		mg/Kg	☼	89	10 - 110
2,4-Dinitrotoluene	<0.19		1.48	1.30		mg/Kg	☼	87	59 - 119
Acenaphthylene	<0.037		1.48	1.22		mg/Kg	☼	83	57 - 116
Acenaphthene	<0.037		1.48	1.17		mg/Kg	☼	79	52 - 113
4-Nitrophenol	<0.75		2.96	1.87		mg/Kg	☼	63	32 - 123
4-Nitroaniline	<0.37		1.48	1.46		mg/Kg	☼	99	55 - 146
4-Bromophenyl phenyl ether	<0.19		1.48	1.27		mg/Kg	☼	86	61 - 124
Bis(2-chloroethoxy)methane	<0.19		1.48	1.35		mg/Kg	☼	91	59 - 116
Bis(2-chloroethyl)ether	<0.19		1.48	0.859		mg/Kg	☼	58	53 - 116
4-Chlorophenyl phenyl ether	<0.19		1.48	1.30		mg/Kg	☼	88	61 - 111
4,6-Dinitro-2-methylphenol	<0.75		2.96	2.51		mg/Kg	☼	85	10 - 110
Anthracene	0.011 J		1.48	1.30		mg/Kg	☼	87	57 - 118
Dibenzofuran	<0.19		1.48	1.28		mg/Kg	☼	86	59 - 110
Carbazole	<0.19		1.48	1.56		mg/Kg	☼	105	65 - 137
Diethyl phthalate	<0.19		1.48	1.45		mg/Kg	☼	98	58 - 117
Dimethyl phthalate	<0.19		1.48	1.26		mg/Kg	☼	85	60 - 112
Di-n-butyl phthalate	<0.19		1.48	1.32		mg/Kg	☼	89	61 - 123
Butyl benzyl phthalate	<0.19		1.48	1.34		mg/Kg	☼	91	61 - 115
Fluoranthene	0.12		1.48	1.42		mg/Kg	☼	88	61 - 124
Benzo[a]anthracene	0.055		1.48	1.37		mg/Kg	☼	89	63 - 115
Fluorene	<0.037		1.48	1.30		mg/Kg	☼	88	56 - 115
Chrysene	0.062		1.48	1.28		mg/Kg	☼	83	63 - 118
Hexachlorobenzene	<0.075		1.48	1.26		mg/Kg	☼	85	62 - 126
3,3'-Dichlorobenzidine	<0.19	F1 F2	1.48	0.315	F1	mg/Kg	☼	21	40 - 110
Hexachlorobutadiene	<0.19		1.48	1.03		mg/Kg	☼	69	56 - 120
Bis(2-ethylhexyl) phthalate	<0.19		1.48	1.43		mg/Kg	☼	97	62 - 117
Hexachlorocyclopentadiene	<0.75	F1	1.48	<0.74	F1	mg/Kg	☼	0	10 - 116
Di-n-octyl phthalate	<0.19		1.48	1.43		mg/Kg	☼	97	58 - 129
Hexachloroethane	<0.19		1.48	1.07		mg/Kg	☼	72	54 - 111
Benzo[b]fluoranthene	0.11		1.48	1.47		mg/Kg	☼	92	61 - 123
Benzo[k]fluoranthene	0.039		1.48	1.47		mg/Kg	☼	97	59 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121261-19 MS

Matrix: Solid

Analysis Batch: 365896

Client Sample ID: 1314V3-11-B01 (0-1)

Prep Type: Total/NA

Prep Batch: 365830

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Isophorone	<0.19		1.48	1.32		mg/Kg	☼	89	54 - 120
Benzo[a]pyrene	0.074		1.48	1.64		mg/Kg	☼	106	64 - 122
Naphthalene	<0.037		1.48	1.16		mg/Kg	☼	78	58 - 116
Indeno[1,2,3-cd]pyrene	0.039		1.48	1.14		mg/Kg	☼	74	50 - 149
Nitrobenzene	<0.037		1.48	1.41		mg/Kg	☼	95	56 - 121
Dibenz(a,h)anthracene	<0.037		1.48	1.13		mg/Kg	☼	77	61 - 134
Benzo[g,h,i]perylene	0.029	J	1.48	1.03		mg/Kg	☼	68	55 - 134
N-Nitrosodi-n-propylamine	<0.075		1.48	1.52		mg/Kg	☼	103	56 - 119
N-Nitrosodiphenylamine	<0.19		1.48	1.26		mg/Kg	☼	85	62 - 117
Pentachlorophenol	<0.75		2.96	0.806		mg/Kg	☼	27	12 - 116
Phenanthrene	0.053		1.48	1.33		mg/Kg	☼	87	58 - 125
Phenol	<0.19		1.48	1.59		mg/Kg	☼	107	55 - 118
Pyrene	0.10		1.48	1.35		mg/Kg	☼	84	60 - 115
3 & 4 Methylphenol	<0.19		1.48	1.43		mg/Kg	☼	96	55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	89		40 - 130
Nitrobenzene-d5	81		33 - 124
2-Fluorobiphenyl	78		42 - 115
2,4,6-Tribromophenol	74		25 - 130
Phenol-d5	102		36 - 123
Terphenyl-d14	93		25 - 150

Lab Sample ID: 500-121261-19 MSD

Matrix: Solid

Analysis Batch: 365896

Client Sample ID: 1314V3-11-B01 (0-1)

Prep Type: Total/NA

Prep Batch: 365830

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,3-Dichlorobenzene	<0.19		1.46	0.982		mg/Kg	☼	67	56 - 110	4	30
1,4-Dichlorobenzene	<0.19		1.46	1.02		mg/Kg	☼	70	57 - 110	3	30
1,2-Dichlorobenzene	<0.19		1.46	1.04		mg/Kg	☼	71	56 - 110	3	30
2,2'-oxybis[1-chloropropane]	<0.19		1.46	1.20		mg/Kg	☼	82	22 - 133	2	30
1,2,4-Trichlorobenzene	<0.19		1.46	1.08		mg/Kg	☼	74	60 - 116	0	30
2,4-Dimethylphenol	<0.37		1.46	1.19		mg/Kg	☼	81	50 - 120	5	30
2-Chlorophenol	<0.19		1.46	1.27		mg/Kg	☼	87	57 - 117	0	30
2,4-Dichlorophenol	<0.37		1.46	1.29		mg/Kg	☼	89	61 - 116	1	30
2-Methylphenol	<0.19		1.46	1.25		mg/Kg	☼	86	53 - 123	1	30
2,4,6-Trichlorophenol	<0.37		1.46	1.11		mg/Kg	☼	76	50 - 120	1	30
2,4,5-Trichlorophenol	<0.37		1.46	1.28		mg/Kg	☼	88	42 - 119	0	30
2-Methylnaphthalene	<0.075		1.46	1.19		mg/Kg	☼	82	55 - 120	1	30
2-Nitroaniline	<0.19		1.46	1.66		mg/Kg	☼	114	52 - 121	1	30
2-Chloronaphthalene	<0.19		1.46	1.25		mg/Kg	☼	85	57 - 112	1	30
2,6-Dinitrotoluene	<0.19		1.46	1.34		mg/Kg	☼	92	57 - 118	1	30
4-Chloro-3-methylphenol	<0.37		1.46	1.48		mg/Kg	☼	101	59 - 117	2	30
2-Nitrophenol	<0.37		1.46	1.28		mg/Kg	☼	87	58 - 121	1	30
4-Chloroaniline	<0.75		1.46	1.06		mg/Kg	☼	72	10 - 150	11	30
3-Nitroaniline	<0.37		1.46	1.21		mg/Kg	☼	83	20 - 144	13	30
2,4-Dinitrophenol	<0.75	*	2.92	2.27		mg/Kg	☼	78	10 - 110	15	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121261-19 MSD

Matrix: Solid

Analysis Batch: 365896

Client Sample ID: 1314V3-11-B01 (0-1)

Prep Type: Total/NA

Prep Batch: 365830

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,4-Dinitrotoluene	<0.19		1.46	1.28		mg/Kg	☼	88	59 - 119	1	30
Acenaphthylene	<0.037		1.46	1.22		mg/Kg	☼	84	57 - 116	0	30
Acenaphthene	<0.037		1.46	1.16		mg/Kg	☼	80	52 - 113	1	30
4-Nitrophenol	<0.75		2.92	1.99		mg/Kg	☼	68	32 - 123	6	30
4-Nitroaniline	<0.37		1.46	1.52		mg/Kg	☼	104	55 - 146	3	30
4-Bromophenyl phenyl ether	<0.19		1.46	1.30		mg/Kg	☼	89	61 - 124	2	30
Bis(2-chloroethoxy)methane	<0.19		1.46	1.37		mg/Kg	☼	94	59 - 116	1	30
Bis(2-chloroethyl)ether	<0.19		1.46	0.880		mg/Kg	☼	60	53 - 116	2	30
4-Chlorophenyl phenyl ether	<0.19		1.46	1.30		mg/Kg	☼	89	61 - 111	0	30
4,6-Dinitro-2-methylphenol	<0.75		2.92	2.44		mg/Kg	☼	84	10 - 110	3	30
Anthracene	0.011	J	1.46	1.33		mg/Kg	☼	91	57 - 118	3	30
Dibenzofuran	<0.19		1.46	1.24		mg/Kg	☼	85	59 - 110	2	30
Carbazole	<0.19		1.46	1.59		mg/Kg	☼	109	65 - 137	2	30
Diethyl phthalate	<0.19		1.46	1.46		mg/Kg	☼	100	58 - 117	1	30
Dimethyl phthalate	<0.19		1.46	1.26		mg/Kg	☼	86	60 - 112	0	30
Di-n-butyl phthalate	<0.19		1.46	1.40		mg/Kg	☼	96	61 - 123	6	30
Butyl benzyl phthalate	<0.19		1.46	1.37		mg/Kg	☼	94	61 - 115	2	30
Fluoranthene	0.12		1.46	1.39		mg/Kg	☼	87	61 - 124	2	30
Benzo[a]anthracene	0.055		1.46	1.36		mg/Kg	☼	90	63 - 115	1	30
Fluorene	<0.037		1.46	1.30		mg/Kg	☼	89	56 - 115	0	30
Chrysene	0.062		1.46	1.30		mg/Kg	☼	85	63 - 118	1	30
Hexachlorobenzene	<0.075		1.46	1.30		mg/Kg	☼	89	62 - 126	3	30
3,3'-Dichlorobenzidine	<0.19	F1 F2	1.46	0.458	F1 F2	mg/Kg	☼	31	40 - 110	37	30
Hexachlorobutadiene	<0.19		1.46	1.01		mg/Kg	☼	70	56 - 120	1	30
Bis(2-ethylhexyl) phthalate	<0.19		1.46	1.46		mg/Kg	☼	100	62 - 117	2	30
Hexachlorocyclopentadiene	<0.75	F1	1.46	<0.73	F1	mg/Kg	☼	0	10 - 116	NC	30
Di-n-octyl phthalate	<0.19		1.46	1.45		mg/Kg	☼	100	58 - 129	1	30
Hexachloroethane	<0.19		1.46	1.03		mg/Kg	☼	70	54 - 111	4	30
Benzo[b]fluoranthene	0.11		1.46	1.51		mg/Kg	☼	96	61 - 123	3	30
Benzo[k]fluoranthene	0.039		1.46	1.51		mg/Kg	☼	101	59 - 125	3	30
Isophorone	<0.19		1.46	1.35		mg/Kg	☼	92	54 - 120	2	30
Benzo[a]pyrene	0.074		1.46	1.65		mg/Kg	☼	108	64 - 122	1	30
Naphthalene	<0.037		1.46	1.15		mg/Kg	☼	79	58 - 116	1	30
Indeno[1,2,3-cd]pyrene	0.039		1.46	1.02		mg/Kg	☼	67	50 - 149	11	30
Nitrobenzene	<0.037		1.46	1.41		mg/Kg	☼	97	56 - 121	0	30
Dibenz(a,h)anthracene	<0.037		1.46	1.02		mg/Kg	☼	70	61 - 134	10	30
Benzo[g,h,i]perylene	0.029	J	1.46	0.898		mg/Kg	☼	60	55 - 134	14	30
N-Nitrosodi-n-propylamine	<0.075		1.46	1.52		mg/Kg	☼	104	56 - 119	0	30
N-Nitrosodiphenylamine	<0.19		1.46	1.30		mg/Kg	☼	89	62 - 117	3	30
Pentachlorophenol	<0.75		2.92	1.00		mg/Kg	☼	34	12 - 116	22	30
Phenanthrene	0.053		1.46	1.34		mg/Kg	☼	88	58 - 125	1	30
Phenol	<0.19		1.46	1.59		mg/Kg	☼	109	55 - 118	0	30
Pyrene	0.10		1.46	1.34		mg/Kg	☼	84	60 - 115	1	30
3 & 4 Methylphenol	<0.19		1.46	1.44		mg/Kg	☼	99	55 - 124	1	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	96		40 - 130
Nitrobenzene-d5	90		33 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121261-19 MSD
Matrix: Solid
Analysis Batch: 365896

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365830

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	84		42 - 115
2,4,6-Tribromophenol	79		25 - 130
Phenol-d5	107		36 - 123
Terphenyl-d14	96		25 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-364935/1-A
Matrix: Solid
Analysis Batch: 365035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364935

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.017		0.017	0.0059	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1221	<0.017		0.017	0.0073	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1232	<0.017		0.017	0.0073	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1242	<0.017		0.017	0.0055	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1248	<0.017		0.017	0.0066	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1254	<0.017		0.017	0.0036	mg/Kg		12/13/16 16:25	12/14/16 09:25	1
PCB-1260	<0.017		0.017	0.0082	mg/Kg		12/13/16 16:25	12/14/16 09:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	76		41 - 124	12/13/16 16:25	12/14/16 09:25	1
DCB Decachlorobiphenyl	96		47 - 127	12/13/16 16:25	12/14/16 09:25	1

Lab Sample ID: LCS 500-364935/3-A
Matrix: Solid
Analysis Batch: 365035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364935

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.167	0.126		mg/Kg		76	60 - 118
PCB-1260	0.167	0.128		mg/Kg		77	66 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	74		41 - 124
DCB Decachlorobiphenyl	94		47 - 127

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-365114/2-A
Matrix: Solid
Analysis Batch: 365431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365114

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0463		mg/L		93	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0940		mg/L		94	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-365114/2-A
Matrix: Solid
Analysis Batch: 365431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365114
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nickel	0.500	0.472		mg/L		94	80 - 120

Lab Sample ID: MB 500-365146/1-A
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Barium	<1.0		1.0	0.18	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Boron	<5.0		5.0	0.70	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Calcium	10.1	J	20	6.4	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Chromium	0.249	J	1.0	0.17	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Copper	<1.0		1.0	0.22	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Iron	<20		20	7.7	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Lead	<0.50		0.50	0.25	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Magnesium	<10		10	4.1	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Potassium	<50		50	8.2	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Silver	<0.50		0.50	0.12	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Sodium	<100		100	13	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/14/16 15:50	12/16/16 20:54	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/14/16 15:50	12/16/16 20:54	1

Lab Sample ID: LCS 500-365146/2-A
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365146
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.0		mg/Kg		92	80 - 120
Arsenic	10.0	8.98		mg/Kg		90	80 - 120
Barium	200	189		mg/Kg		94	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	89.5		mg/Kg		89	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Calcium	1000	996		mg/Kg		100	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	10.0	9.66		mg/Kg		97	80 - 120
Magnesium	1000	951		mg/Kg		95	80 - 120
Manganese	50.0	51.5		mg/Kg		103	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-365146/2-A
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nickel	50.0	47.6		mg/Kg		95	80 - 120
Potassium	1000	1010		mg/Kg		101	80 - 120
Selenium	10.0	8.58		mg/Kg		86	80 - 120
Silver	5.00	4.66		mg/Kg		93	80 - 120
Sodium	1000	956		mg/Kg		96	80 - 120
Thallium	10.0	9.15		mg/Kg		91	80 - 120
Vanadium	50.0	50.0		mg/Kg		100	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.1	F1	27.4	6.62	F1	mg/Kg	☼	24	75 - 125
Arsenic	3.9		5.48	8.62		mg/Kg	☼	86	75 - 125
Barium	81		110	193		mg/Kg	☼	102	75 - 125
Beryllium	0.49		2.74	2.95		mg/Kg	☼	90	75 - 125
Boron	3.3	F1	54.8	43.9	F1	mg/Kg	☼	74	75 - 125
Cadmium	0.23		2.74	2.44		mg/Kg	☼	81	75 - 125
Calcium	8900	B	548	9910	4	mg/Kg	☼	181	75 - 125
Chromium	13	B	11.0	26.2		mg/Kg	☼	122	75 - 125
Cobalt	4.8		27.4	27.8		mg/Kg	☼	84	75 - 125
Copper	12		13.7	26.1		mg/Kg	☼	99	75 - 125
Iron	12000		54.8	14000	4	mg/Kg	☼	3571	75 - 125
Lead	26	F2	5.48	31.2	4	mg/Kg	☼	90	75 - 125
Magnesium	2800		548	3750	4	mg/Kg	☼	169	75 - 125
Manganese	410		27.4	540	4	mg/Kg	☼	482	75 - 125
Nickel	11		27.4	36.2		mg/Kg	☼	90	75 - 125
Selenium	0.28	J F1	5.48	4.33	F1	mg/Kg	☼	74	75 - 125
Silver	<0.27		2.74	2.39		mg/Kg	☼	87	75 - 125
Sodium	290		548	893		mg/Kg	☼	110	75 - 125
Thallium	0.66		5.48	5.56		mg/Kg	☼	89	75 - 125
Vanadium	20		27.4	51.0		mg/Kg	☼	112	75 - 125
Zinc	45	F1	27.4	75.3		mg/Kg	☼	109	75 - 125

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365688

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Potassium	570		548	1210		mg/Kg	☼	116	75 - 125

Lab Sample ID: 500-121261-19 MSD
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.1	F1	27.7	6.32	F1	mg/Kg	☼	23	75 - 125	5	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121261-19 MSD
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	3.9		5.53	8.85		mg/Kg	☼	89	75 - 125	3	20
Barium	81		111	188		mg/Kg	☼	97	75 - 125	2	20
Beryllium	0.49		2.77	2.99		mg/Kg	☼	90	75 - 125	1	20
Boron	3.3	F1	55.3	44.8		mg/Kg	☼	75	75 - 125	2	20
Cadmium	0.23		2.77	2.54		mg/Kg	☼	83	75 - 125	4	20
Calcium	8900	B	553	10200	4	mg/Kg	☼	230	75 - 125	3	20
Chromium	13	B	11.1	25.8		mg/Kg	☼	117	75 - 125	2	20
Cobalt	4.8		27.7	28.1		mg/Kg	☼	84	75 - 125	1	20
Copper	12		13.8	27.6		mg/Kg	☼	109	75 - 125	6	20
Iron	12000		55.3	13900	4	mg/Kg	☼	3349	75 - 125	1	20
Lead	26	F2	5.53	40.3	4 F2	mg/Kg	☼	254	75 - 125	26	20
Magnesium	2800		553	3780	4	mg/Kg	☼	172	75 - 125	1	20
Manganese	410		27.7	514	4	mg/Kg	☼	380	75 - 125	5	20
Nickel	11		27.7	36.3		mg/Kg	☼	90	75 - 125	0	20
Selenium	0.28	J F1	5.53	4.39	F1	mg/Kg	☼	74	75 - 125	1	20
Silver	<0.27		2.77	2.45		mg/Kg	☼	88	75 - 125	2	20
Sodium	290		553	881		mg/Kg	☼	106	75 - 125	1	20
Thallium	0.66		5.53	5.61		mg/Kg	☼	89	75 - 125	1	20
Vanadium	20		27.7	50.8		mg/Kg	☼	111	75 - 125	0	20
Zinc	45	F1	27.7	81.6	F1	mg/Kg	☼	131	75 - 125	8	20

Lab Sample ID: 500-121261-19 MSD
Matrix: Solid
Analysis Batch: 365688

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Potassium	570		553	1210		mg/Kg	☼	116	75 - 125	1	20

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<1.1	F1	0.335	J	mg/Kg	☼	NC	20
Arsenic	3.9		4.01		mg/Kg	☼	3	20
Barium	81		86.6		mg/Kg	☼	7	20
Beryllium	0.49		0.536		mg/Kg	☼	8	20
Boron	3.3	F1	3.57		mg/Kg	☼	9	20
Cadmium	0.23		0.239		mg/Kg	☼	3	20
Calcium	8900	B	8880		mg/Kg	☼	0.4	20
Chromium	13	B	13.8		mg/Kg	☼	7	20
Cobalt	4.8		5.60		mg/Kg	☼	15	20
Copper	12		12.7		mg/Kg	☼	2	20
Iron	12000		16200	F3	mg/Kg	☼	29	20
Lead	26	F2	38.8	F3	mg/Kg	☼	39	20
Magnesium	2800		2860		mg/Kg	☼	1	20
Manganese	410		520	F3	mg/Kg	☼	24	20
Nickel	11		11.8		mg/Kg	☼	3	20
Selenium	0.28	J F1	0.376	J F5	mg/Kg	☼	31	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Silver	<0.27		<0.28		mg/Kg	☼	NC	20
Sodium	290		299		mg/Kg	☼	2	20
Thallium	0.66		0.903	F5	mg/Kg	☼	31	20
Vanadium	20		21.8		mg/Kg	☼	8	20
Zinc	45	F1	49.4		mg/Kg	☼	9	20

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365688

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: Total/NA
Prep Batch: 365146

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Potassium	570		581		mg/Kg	☼	2	20

Lab Sample ID: LCS 500-365242/2-A
Matrix: Solid
Analysis Batch: 365435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Barium	0.500	0.480	J	mg/L		96	80 - 120	
Beryllium	0.0500	0.0476		mg/L		95	80 - 120	
Boron	1.00	0.881		mg/L		88	80 - 120	
Cadmium	0.0500	0.0465		mg/L		93	80 - 120	
Chromium	0.200	0.191		mg/L		95	80 - 120	
Cobalt	0.500	0.479		mg/L		96	80 - 120	
Iron	1.00	0.972		mg/L		97	80 - 120	
Lead	0.100	0.0928		mg/L		93	80 - 120	
Manganese	0.500	0.469		mg/L		94	80 - 120	
Nickel	0.500	0.480		mg/L		96	80 - 120	
Selenium	0.100	0.0903		mg/L		90	80 - 120	
Silver	0.0500	0.0460		mg/L		92	80 - 120	
Zinc	0.500	0.476	J	mg/L		95	80 - 120	

Lab Sample ID: LCS 500-365718/2-A
Matrix: Solid
Analysis Batch: 365876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	0.100	0.0976		mg/L		98	80 - 120	

Lab Sample ID: LB 500-365091/1-B
Matrix: Solid
Analysis Batch: 365435

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365242

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 08:57	12/15/16 23:26	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 08:57	12/15/16 23:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 08:57	12/15/16 23:26	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:26	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-365091/1-B
Matrix: Solid
Analysis Batch: 365435

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365242

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:26	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 08:57	12/15/16 23:26	1
Lead	0.0471		0.0075	0.0075	mg/L		12/15/16 08:57	12/15/16 23:26	1
Manganese	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:26	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:26	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 08:57	12/15/16 23:26	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 08:57	12/15/16 23:26	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 08:57	12/15/16 23:26	1

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365435

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: TCLP
Prep Batch: 365242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.78		0.500	1.34		mg/L		112	50 - 150
Beryllium	<0.0040		0.0500	0.0496		mg/L		99	50 - 150
Boron	0.074	J	1.00	1.00		mg/L		93	50 - 150
Cadmium	0.0021	J	0.0500	0.0560		mg/L		108	50 - 150
Chromium	<0.025		0.200	0.192		mg/L		96	50 - 150
Cobalt	<0.025		0.500	0.529		mg/L		106	50 - 150
Iron	<0.40		1.00	1.01		mg/L		101	50 - 150
Manganese	0.90		0.500	1.42		mg/L		104	50 - 150
Nickel	<0.025		0.500	0.523		mg/L		105	50 - 150
Selenium	<0.050		0.100	0.125		mg/L		125	50 - 150
Silver	<0.025		0.0500	0.0547		mg/L		109	50 - 150
Zinc	0.048	J	0.500	0.596		mg/L		110	50 - 150

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365435

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: TCLP
Prep Batch: 365242

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.78		0.922		mg/L		16	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.074	J	0.0702	J	mg/L		5	20
Cadmium	0.0021	J	0.00319	J F5	mg/L		40	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Manganese	0.90		1.06		mg/L		16	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.048	J	0.0587	J F5	mg/L		21	20

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-365637/1-B
Matrix: Solid
Analysis Batch: 365876

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365718

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/19/16 08:53	12/19/16 17:06	1

Lab Sample ID: 500-121261-13 MS
Matrix: Solid
Analysis Batch: 365876

Client Sample ID: 1314V3-06-B01 (0-8)
Prep Type: TCLP
Prep Batch: 365718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	<0.0075		0.100	0.0975		mg/L		97	50 - 150

Lab Sample ID: 500-121261-13 DU
Matrix: Solid
Analysis Batch: 365876

Client Sample ID: 1314V3-06-B01 (0-8)
Prep Type: TCLP
Prep Batch: 365718

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	<0.0075		<0.0075		mg/L		NC	20

Lab Sample ID: LB 500-364903/1-B
Matrix: Solid
Analysis Batch: 365431

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 365114

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/14/16 14:09	12/16/16 04:45	1
Iron	<0.20		0.20	0.20	mg/L		12/14/16 14:09	12/16/16 04:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/14/16 14:09	12/16/16 04:45	1
Manganese	<0.025		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 04:45	1
Nickel	<0.025		0.025	0.010	mg/L		12/14/16 14:09	12/16/16 04:45	1

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: SPLP East
Prep Batch: 365114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.38		0.500	0.968		mg/L		118	50 - 150

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365635

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: SPLP East
Prep Batch: 365114

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.38		0.351		mg/L		7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-365242/2-A
Matrix: Solid
Analysis Batch: 365446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.456		mg/L		91	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-365242/2-A
Matrix: Solid
Analysis Batch: 365446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365242
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.0985		mg/L		98	80 - 120

Lab Sample ID: MB 500-364441/1-A
Matrix: Water
Analysis Batch: 364838

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 364441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00044	mg/L		12/09/16 14:56	12/12/16 16:52	1
Barium	<0.0025		0.0025	0.00084	mg/L		12/09/16 14:56	12/12/16 16:52	1
Boron	<0.050		0.050	0.025	mg/L		12/09/16 14:56	12/12/16 16:52	1
Cadmium	<0.00050		0.00050	0.00019	mg/L		12/09/16 14:56	12/12/16 16:52	1
Calcium	<0.20		0.20	0.11	mg/L		12/09/16 14:56	12/12/16 16:52	1
Chromium	<0.0050		0.0050	0.00061	mg/L		12/09/16 14:56	12/12/16 16:52	1
Cobalt	<0.0010		0.0010	0.00019	mg/L		12/09/16 14:56	12/12/16 16:52	1
Copper	<0.0020		0.0020	0.00096	mg/L		12/09/16 14:56	12/12/16 16:52	1
Iron	0.113		0.10	0.026	mg/L		12/09/16 14:56	12/12/16 16:52	1
Lead	<0.00050		0.00050	0.00014	mg/L		12/09/16 14:56	12/12/16 16:52	1
Magnesium	<0.20		0.20	0.083	mg/L		12/09/16 14:56	12/12/16 16:52	1
Manganese	<0.0025		0.0025	0.00099	mg/L		12/09/16 14:56	12/12/16 16:52	1
Nickel	<0.0020		0.0020	0.00053	mg/L		12/09/16 14:56	12/12/16 16:52	1
Potassium	<0.50		0.50	0.19	mg/L		12/09/16 14:56	12/12/16 16:52	1
Selenium	<0.0025		0.0025	0.00083	mg/L		12/09/16 14:56	12/12/16 16:52	1
Silver	<0.00050		0.00050	0.000080	mg/L		12/09/16 14:56	12/12/16 16:52	1
Sodium	<0.20		0.20	0.088	mg/L		12/09/16 14:56	12/12/16 16:52	1
Thallium	<0.0020		0.0020	0.00059	mg/L		12/09/16 14:56	12/12/16 16:52	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		12/09/16 14:56	12/12/16 16:52	1
Zinc	0.00954	J	0.020	0.0046	mg/L		12/09/16 14:56	12/12/16 16:52	1

Lab Sample ID: LCS 500-364441/2-A
Matrix: Water
Analysis Batch: 364838

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364441
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	0.500	0.494		mg/L		99	80 - 120
Boron	1.00	0.943		mg/L		94	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Calcium	10.0	11.3		mg/L		113	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.995		mg/L		99	80 - 120
Lead	0.100	0.0973		mg/L		97	80 - 120
Magnesium	10.0	9.76		mg/L		98	80 - 120
Manganese	0.500	0.494		mg/L		99	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Potassium	10.0	9.83		mg/L		98	80 - 120
Selenium	0.100	0.0993		mg/L		99	80 - 120
Silver	0.0500	0.0515		mg/L		103	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-364441/2-A
Matrix: Water
Analysis Batch: 364838

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 364441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	9.68		mg/L		97	80 - 120
Thallium	0.100	0.0967		mg/L		97	80 - 120
Vanadium	0.500	0.482		mg/L		96	80 - 120
Zinc	0.500	0.508		mg/L		102	80 - 120

Lab Sample ID: LB 500-365091/1-B
Matrix: Solid
Analysis Batch: 365446

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365242

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 08:57	12/15/16 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 08:57	12/15/16 17:56	1

Lab Sample ID: 500-121261-19 MS
Matrix: Solid
Analysis Batch: 365446

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: TCLP
Prep Batch: 365242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.461		mg/L		92	50 - 150
Thallium	<0.0020		0.100	0.0985		mg/L		99	50 - 150

Lab Sample ID: 500-121261-19 DU
Matrix: Solid
Analysis Batch: 365446

Client Sample ID: 1314V3-11-B01 (0-1)
Prep Type: TCLP
Prep Batch: 365242

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury

Lab Sample ID: MB 500-364700/12-A
Matrix: Water
Analysis Batch: 364926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		12/12/16 14:00	12/13/16 13:18	1

Lab Sample ID: LCS 500-364700/13-A
Matrix: Water
Analysis Batch: 364926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00207		mg/L		104	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-365288/12-A
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:33	1

Lab Sample ID: LCS 500-365288/13-A
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00211		mg/L		106	80 - 120

Lab Sample ID: LB 500-365091/1-C
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365288

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:39	1

Lab Sample ID: 500-121261-1 MS
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: TCLP
Prep Batch: 365288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000655		mg/L		65	50 - 150

Lab Sample ID: 500-121261-1 DU
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: TCLP
Prep Batch: 365288

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-365139/12-A
Matrix: Solid
Analysis Batch: 365298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0117	J	0.017	0.0088	mg/Kg		12/14/16 16:00	12/15/16 11:55	1

Lab Sample ID: LCS 500-365139/13-A
Matrix: Solid
Analysis Batch: 365298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.169		mg/Kg		101	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-121261-1 MS
Matrix: Solid
Analysis Batch: 365298

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 365139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.038	B	0.0818	0.129		mg/Kg	☼	111	75 - 125

Lab Sample ID: 500-121261-1 MSD
Matrix: Solid
Analysis Batch: 365298

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 365139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.038	B	0.0934	0.137		mg/Kg	☼	106	75 - 125	6	20

Lab Sample ID: 500-121261-1 DU
Matrix: Solid
Analysis Batch: 365298

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 365139

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.038	B	0.0453		mg/Kg	☼	17	20

Method: 9045D - pH

Lab Sample ID: 500-121261-1 DU
Matrix: Solid
Analysis Batch: 365174

Client Sample ID: 1314V3-01-B36 (0-8)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.4		8.4		SU		0.4	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 04:59	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:35	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:06	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 15:25		
					(End)	12/14/16 15:27		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-01-B36 (0-8)

Lab Sample ID: 500-121261-1

Date Collected: 12/08/16 14:30

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 12:48	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 12:43	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:07	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:00	MJD	TAL CHI

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 05:06	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:39	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	365876	12/19/16 22:10	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:11	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		BJJ	TAL CHI
					(Start)	12/14/16 15:30		
					(End)	12/14/16 15:33		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-01-B36 (8-16)

Lab Sample ID: 500-121261-2

Date Collected: 12/08/16 14:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 13:13	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 13:09	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:14	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:14	MJD	TAL CHI

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 05:13	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:44	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:15	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:48	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	365174		JBJ	TAL CHI
					(Start)	12/14/16 15:33		
					(End)	12/14/16 15:36		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-01-B36 (16-24)

Lab Sample ID: 500-121261-3

Date Collected: 12/08/16 14:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 13:38	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 13:34	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:21	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 13:12	MJD	TAL CHI

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365635	12/16/16 18:21	KML	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:49	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:20	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JBJ	TAL CHI
					(Start)	12/14/16 15:36		
					(End)	12/14/16 15:39		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-01-B36 (24-28)

Lab Sample ID: 500-121261-4

Date Collected: 12/08/16 15:10

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364610	12/12/16 15:31	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 13:59	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:28	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:19	MJD	TAL CHI

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:54	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:25	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 15:39		
					(End)	12/14/16 15:42		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-02-B01 (0-5)

Lab Sample ID: 500-121261-5

Date Collected: 12/08/16 08:40

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 68.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/08/16 08:40	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364610	12/12/16 15:56	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 14:24	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:34	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		10	365688	12/18/16 20:31	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:21	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 05:33	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/15/16 23:59	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 22:14	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:29	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 15:42		
					(End)	12/14/16 15:45		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-02-B01 (5-10)

Lab Sample ID: 500-121261-6

Date Collected: 12/08/16 08:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 14:52	DJD	TAL CHI
Total/NA	Prep	3541	DL		365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	5	366210	12/22/16 02:06	GES	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 21:06	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:41	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		10	365688	12/18/16 20:35	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:23	MJD	TAL CHI

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365402	12/16/16 17:37	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-G01

Lab Sample ID: 500-121261-7

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			364764	12/12/16 21:45	LLH	TAL CHI
Total/NA	Analysis	8270D		1	365383	12/16/16 05:20	GES	TAL CHI
Total Recoverable	Prep	3005A			364441	12/09/16 14:56	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	364838	12/12/16 17:30	PFK	TAL CHI
Total Recoverable	Prep	3005A			364441	12/09/16 14:56	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	365454	12/15/16 19:40	FXG	TAL CHI
Total/NA	Prep	7470A			364700	12/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	364926	12/13/16 13:39	MJD	TAL CHI

Client Sample ID: 1314V3-02-G01D

Lab Sample ID: 500-121261-8

Date Collected: 12/08/16 09:15

Matrix: Water

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365839	12/20/16 01:27	TCT	TAL CHI
Total/NA	Prep	3510C			364764	12/12/16 21:45	LLH	TAL CHI
Total/NA	Analysis	8270D		1	365383	12/16/16 05:45	GES	TAL CHI
Total Recoverable	Prep	3005A			364441	12/09/16 14:56	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	364838	12/12/16 17:33	PFK	TAL CHI
Total Recoverable	Prep	3005A			364441	12/09/16 14:56	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	365454	12/15/16 19:44	FXG	TAL CHI
Total/NA	Prep	7470A			364700	12/12/16 14:00	MJD	TAL CHI
Total/NA	Analysis	7470A		1	364926	12/13/16 13:41	MJD	TAL CHI

Client Sample ID: 1314V3-00-TB03

Lab Sample ID: 500-121261-9

Date Collected: 12/08/16 00:00

Matrix: Water

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	365402	12/16/16 18:29	TCT	TAL CHI

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 05:40	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:04	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:34	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174	(Start) 12/14/16 15:45 (End) 12/14/16 15:48	JBK	TAL CHI
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-02-B02 (0-6)

Lab Sample ID: 500-121261-10

Date Collected: 12/08/16 10:45

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 15:17	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 14:49	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:48	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:26	MJD	TAL CHI

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:02	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:17	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 22:19	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:39	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:58	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	365174	12/14/16 15:48 (Start) 12/14/16 15:51 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-02-B02 (6-12)

Lab Sample ID: 500-121261-11

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 15:42	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 15:14	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 21:55	KML	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:28	MJD	TAL CHI

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:09	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:21	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:53	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174	12/14/16 15:51 (Start) 12/14/16 15:54 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-02-B02 (6-12)D

Lab Sample ID: 500-121261-12

Date Collected: 12/08/16 10:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 16:07	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 15:39	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 22:17	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365688	12/18/16 20:39	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:30	MJD	TAL CHI

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:16	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:26	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 22:24	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 18:57	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 15:54		
					(End)	12/14/16 15:57		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/08/16 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364836	12/13/16 13:47	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B01 (0-8)

Lab Sample ID: 500-121261-13

Date Collected: 12/08/16 11:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	365896	12/20/16 19:00	AJD	TAL CHI
Total/NA	Prep	3541			364935	12/13/16 16:25	JP1	TAL CHI
Total/NA	Analysis	8082A		1	365035	12/14/16 15:03	BJH	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		5	365635	12/16/16 22:24	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		5	365688	12/18/16 20:43	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:37	MJD	TAL CHI

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:23	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:31	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 22:50	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:02	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 15:57		
					(End)	12/14/16 16:00		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 16:57	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 19:25	AJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B02 (0-8)

Lab Sample ID: 500-121261-14

Date Collected: 12/08/16 11:50

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		5	365635	12/16/16 22:31	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		5	365688	12/18/16 20:48	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:39	MJD	TAL CHI

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:29	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:36	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 22:55	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:07	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 16:00		
					(End)	12/14/16 16:03		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 17:22	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 16:04	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 22:38	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-06-B03 (0-4)

Lab Sample ID: 500-121261-15

Date Collected: 12/08/16 12:20

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	365688	12/18/16 20:52	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:42	MJD	TAL CHI

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:36	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:41	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 23:00	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:11	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 16:03		
					(End)	12/14/16 16:06		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-11-B03 (0-1)

Lab Sample ID: 500-121261-16

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 17:47	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 19:51	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 22:44	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365688	12/18/16 20:56	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:44	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:43	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:46	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 23:05	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:16	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JB	TAL CHI
					(Start)	12/14/16 16:06		
					(End)	12/14/16 16:09		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-11-B03 (0-1)D

Lab Sample ID: 500-121261-17

Date Collected: 12/08/16 16:15

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 18:12	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 20:16	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 22:51	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365688	12/18/16 21:08	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:46	MJD	TAL CHI

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365431	12/16/16 06:50	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:50	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 23:10	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:30	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:08	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JBK	TAL CHI
					(Start)	12/14/16 16:09		
					(End)	12/14/16 16:12		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-11-B02 (0-1)

Lab Sample ID: 500-121261-18

Date Collected: 12/08/16 16:35

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 18:36	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 20:41	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 22:58	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365688	12/18/16 21:13	PJ1	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		10	365688	12/18/16 21:18	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:49	MJD	TAL CHI

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			364903	12/13/16 14:44	RMP	TAL CHI
SPLP East	Prep	3010A			365114	12/14/16 14:09	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365635	12/16/16 18:27	KML	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	365435	12/16/16 00:55	PJ1	TAL CHI
TCLP	Leach	1311			365637	12/18/16 12:00	MJD	TAL CHI
TCLP	Prep	3010A			365718	12/19/16 08:53	JEF	TAL CHI
TCLP	Analysis	6010B		1	365876	12/19/16 23:15	PJ1	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365242	12/15/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	365446	12/15/16 19:35	FXG	TAL CHI
TCLP	Leach	1311			365091	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365288	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 11:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365174		JBK	TAL CHI
					(Start)	12/14/16 16:12		
					(End)	12/14/16 16:15		
Total/NA	Analysis	Moisture		1	364872	12/13/16 12:36	LWN	TAL CHI

Client Sample ID: 1314V3-11-B01 (0-1)

Lab Sample ID: 500-121261-19

Date Collected: 12/08/16 16:55

Matrix: Solid

Date Received: 12/09/16 10:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364545	12/11/16 19:01	DJD	TAL CHI
Total/NA	Prep	5035			364544	12/09/16 17:53	WRE	TAL CHI
Total/NA	Analysis	8260B		1	364610	12/12/16 16:47	DJD	TAL CHI
Total/NA	Prep	3541			365830	12/19/16 16:12	DAK	TAL CHI
Total/NA	Analysis	8270D		1	365896	12/20/16 16:30	AJD	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365635	12/16/16 23:05	KML	TAL CHI
Total/NA	Prep	3050B			365146	12/14/16 15:50	JNH	TAL CHI
Total/NA	Analysis	6010B		1	365688	12/18/16 21:22	PJ1	TAL CHI
Total/NA	Prep	7471B			365139	12/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365298	12/15/16 12:51	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121261-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534.5201



500-121261 COC

Report To: _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To: _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121261
Chain of Custody Number: EE46-3c
Page _____ of _____
Temperature °C of Cooler: 3.6/3.8

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Parameter							Comments			
Project Location/State		Lab Project #										
Sampler		Lab PM										
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						
			Date	Time								
1		1314V3-01-B336(0-8)	12-8-16	1430	2	S	X	X	X	X	X	C4/E26
2		1314V3-01-B336(8-16)	12-8-16	1435	2	S	X	X	X	X		
3		1314V3-01-B336(16-24)	12-8-16	1440	2	S	X	X	X	X		
4		1314V3-01-B336(24-28)	12-8-16	1510	2	S	X	X	X	X		
12-8-16												

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By:	Company: <u>EE</u>	Date: <u>12-8-16</u>	Time: <u>1700</u>	Received By:	Company: <u>TH-OHL</u>	Date: <u>12/9/16</u>	Time: <u>1000</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>Fed-Ex</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121261
Chain of Custody Number: E846-26
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key		
EE		1009008-0046-01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		Matrix										Comments		
I74		500127		Date Time <td colspan="2"># of Containers <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </td>		# of Containers <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td>												
Project Location/State		Lab PM																
Rock Island County, IL		D. Wright																
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix												
5		1314V3-02-T301(0-5)	12-8-16	0840	2 S	W	X	X	X	X	X							64608
6		1314V3-02-B01(5-10)	12-8-16	0845	2 S	W	X	X	X	X	X							
7		1314V3-02-601	12-8-16	0915	6 W	W	X	X	X									
8		1314V3-02-601D	12-8-16	0915	6 W	W	X	X	X									
9		1314V3-00-TB03	-	-	2 W	W	X											
10		1314V3-02-B02(0-6)	12-8-16	1045	2 S	W												
11		1314V3-02-B02(6-12)	12-8-16	1050	2 S	W												
12		1314V3-02-B02(6-12)	12-8-16	1050	2 S	W												

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	EE	12-8-16	1700	<i>[Signature]</i>	TA-CHI	12/9/16	1800
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: FedEx
Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-12/26/16
 Chain of Custody Number: ED16-29
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter						Preservative Key	
Project Name		Lab Project #		Matrix									
Project Location/State		Lab Project #		Matrix								Comments	
Sampler		Lab PM		Matrix									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix							
			Date	Time									
13		1314V3-06-B01 (0-8)	12-8-16	1120	2 S	Soc	X	X	X	X	X	X	64 CO8
14		1314V3-06-B02 (0-8)	12-8-16	1150	2 S	Soc	X	X	X	X	X	X	
15		1314V3-06-B03 (0-8)	12-8-16	1220	2 S	Soc	X	X	X	X	X	X	
12-8-16													

Turnaround Time Required (Business Days)

1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other ___

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-8-16</u>	Time: <u>1100</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CAL</u>	Date: <u>12/9/16</u>	Time: <u>1000</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121261

Chain of Custody Number: E896-31

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
EE		1009008-0046-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		# of Containers		Matrix							
I74		50012744											
Project Location/State		Lab PM											
Rock Island County, IL		D Wright											
Sampler													
S. Cooper													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Vol	SVOL	Total TML	TML	TPR/SPR	PT / 4% Solids	Comments
			Date	Time									
16		1314V3-11-B03(0-1)	12-8-16	1615	2	S	X	X	X	X	X		
17		1314V3-11-B03(0-1)	12-8-16	1615	2	S	X	X	X	X	X		
18		1314V3-11-B02(0-1)	12-8-16	1635	2	S	X	X	X	X	X		
19		1314V3-11-B01(0-1)	12-8-16	1655	2	S	X	X	X	X	X		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Lab Courier
<i>[Signature]</i>	EE	12-8-16	1700	<i>[Signature]</i>	TestAmerica	12/9/16	1000	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
								Fed-X
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121261-1

Login Number: 121261

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121303-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/23/2016 4:42:55 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Job ID: 500-121303-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121303-1

Comments

No additional comments.

Receipt

The samples were received on 12/10/2016 7:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 8260B: Surrogate recoveries were outside of acceptance limits for the following samples: 1314V3-17-B01 (0-7) (500-121303-5), 1314V3-17-B02 (0-7) (500-121303-6), 1314V3-24-B05 (0-5) (500-121303-10) and 1314V3-24-B07 (0-5) (500-121303-12). Re-analysis was performed with surrogate recoveries having concurring results. The best data were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121303-E-2-I MS) and (500-121303-E-2-J MSD)

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-366006 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified. (LCS 500-366006/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: 1314V3-17-B02 (0-7) (500-121303-6). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-365093 and 500-365312 contained Lead above the reporting limit (RL). The samples 1314V3-05-B02 (0-6) (500-121303-1), 1314V3-05-B02 (6-10.6) (500-121303-2), 1314V3-05-B01 (0-5) (500-121303-4), 1314V3-17-B01 (0-7) (500-121303-5), 1314V3-17-B03 (0-7) (500-121303-7), 1314V3-17-B03 (0-7)D (500-121303-8), 1314V3-24-B06 (0-4) (500-121303-9), 1314V3-24-B05 (5-10) (500-121303-11) and 1314V3-24-B08 (0-8) (500-121303-13) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of the samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0058	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.010	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.084		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.086		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.042		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.058		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.032	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J F1	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	81	F1	0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	4.6	F1	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	980	F1	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J B F1	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	67	F1	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.076	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.065		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7	J	3.0	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.093	J B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	4300	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.61	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6) (Continued)

Lab Sample ID: 500-121303-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.1		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3200		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		30	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J B	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.046		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.12		0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.061		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.060	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.065		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.2		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.25		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.13	J	0.19	0.095	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.2		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.0		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.96		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.94		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.56		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.92		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.10		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.29		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.50	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	4.7		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	14		0.50	0.086	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9) (Continued)

Lab Sample ID: 500-121303-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.4		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3200		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	650		0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	990		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.96	B	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	97		50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.44		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.053		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.024	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	640		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5) (Continued)

Lab Sample ID: 500-121303-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	20		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	83		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.013	J	0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0076	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0084	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.015	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0076	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.085		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.059		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.066		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.075		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.053		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.061		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9600		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	780		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.079	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B01 (0-7) (Continued)

Lab Sample ID: 500-121303-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.25		0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.50		0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.074		0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.060		0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.16	J	0.20	0.047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.074		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.9		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.30		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.22		0.20	0.10	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.7		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.6		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.1		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.5		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.7		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.96		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.1		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.31		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.087		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.30		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	15		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	210		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.1		1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Boron	26		14	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.5	B	0.55	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	5500	B	55	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	16		2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	9.3		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA
Copper	120		2.8	0.60	mg/Kg	5	☼	6010B	Total/NA
Iron	32000	B	55	21	mg/Kg	5	☼	6010B	Total/NA
Lead	360		1.4	0.69	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1300		28	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	370		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	21		2.8	0.75	mg/Kg	5	☼	6010B	Total/NA
Potassium	890		140	23	mg/Kg	5	☼	6010B	Total/NA
Selenium	3.0	B	2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Sodium	1100		280	37	mg/Kg	5	☼	6010B	Total/NA
Vanadium	27		1.4	0.40	mg/Kg	5	☼	6010B	Total/NA
Zinc	460		5.5	1.8	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7) (Continued)

Lab Sample ID: 500-121303-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.2		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.072		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.3		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.29		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.42		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	8.1		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	7.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	440		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	28		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.78		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.091	J B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D (Continued)

Lab Sample ID: 500-121303-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	9000	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	8.3		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	7.5		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5600		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	190		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	B	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	29		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.2	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0096		0.0018	0.00062	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.081		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.040		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.082		0.038	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.46	0.085	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.19	0.040	mg/Kg	1	☼	6010B	Total/NA
Boron	2.3		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.093	0.027	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	9.3	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.46	0.080	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.23	0.052	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.46	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	9.3	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.23	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7500		4.6	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	860		0.46	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.46	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	600		23	3.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4) (Continued)

Lab Sample ID: 500-121303-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.0	B	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		46	6.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		0.93	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.075	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0089	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.040		0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.025	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.53		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.077		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.60		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.64		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.27		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.084		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.091		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	9.5		1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.51	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	9800	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.3		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	83		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	29000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	220		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		57	7.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5) (Continued)

Lab Sample ID: 500-121303-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	200		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.0075		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.017		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.12		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	2.3	J	2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	3100	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	780		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	B	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.27	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.088	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0072	J	0.038	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0078	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.030	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.074		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5) (Continued)

Lab Sample ID: 500-121303-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	0.077		0.038	0.0077	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]anthracene	0.044		0.038	0.0052	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.052		0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.066		0.038	0.0084	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]pyrene	0.047		0.038	0.0075	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.010	mg/Kg	1	*	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.038	0.012	mg/Kg	1	*	*	8270D	Total/NA
Antimony	2.7		1.0	0.22	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	5.2		0.52	0.24	mg/Kg	1	*	*	6010B	Total/NA
Barium	80		0.52	0.096	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.60		0.21	0.045	mg/Kg	1	*	*	6010B	Total/NA
Boron	5.9		2.6	0.37	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.44	B	0.10	0.030	mg/Kg	1	*	*	6010B	Total/NA
Calcium	11000	B	10	3.4	mg/Kg	1	*	*	6010B	Total/NA
Chromium	12		0.52	0.090	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	6.1		0.26	0.059	mg/Kg	1	*	*	6010B	Total/NA
Copper	28		0.52	0.11	mg/Kg	1	*	*	6010B	Total/NA
Iron	18000	B	10	4.0	mg/Kg	1	*	*	6010B	Total/NA
Lead	120		0.26	0.13	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	2000		5.2	2.1	mg/Kg	1	*	*	6010B	Total/NA
Manganese	270		0.52	0.10	mg/Kg	1	*	*	6010B	Total/NA
Nickel	15		0.52	0.14	mg/Kg	1	*	*	6010B	Total/NA
Potassium	820		26	4.3	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.65	B	0.52	0.26	mg/Kg	1	*	*	6010B	Total/NA
Sodium	560		52	6.9	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	17		0.26	0.076	mg/Kg	1	*	*	6010B	Total/NA
Zinc	150		1.0	0.33	mg/Kg	1	*	*	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1			6010B	TCLP
Lead	0.030		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.17		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.45		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.37		0.091	0.048	mg/Kg	5	*	*	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluorene	0.0056	J	0.039	0.0056	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.12		0.039	0.0055	mg/Kg	1	*	*	8270D	Total/NA
Anthracene	0.016	J	0.039	0.0066	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.18		0.039	0.0074	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.18		0.039	0.0079	mg/Kg	1	*	*	8270D	Total/NA
Benzo[a]anthracene	0.081		0.039	0.0053	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.093		0.039	0.011	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0086	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.046		0.039	0.012	mg/Kg	1	*	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8) (Continued)

Lab Sample ID: 500-121303-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.080		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.039		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.2		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	5300	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	170		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	860		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.076	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.028		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121303-1	1314V3-05-B02 (0-6)	Solid	12/09/16 08:25	12/10/16 07:15
500-121303-2	1314V3-05-B02 (6-10.6)	Solid	12/09/16 08:30	12/10/16 07:15
500-121303-3	1314V3-05-B03 (0-5.9)	Solid	12/09/16 08:45	12/10/16 07:15
500-121303-4	1314V3-05-B01 (0-5)	Solid	12/09/16 10:20	12/10/16 07:15
500-121303-5	1314V3-17-B01 (0-7)	Solid	12/09/16 09:20	12/10/16 07:15
500-121303-6	1314V3-17-B02 (0-7)	Solid	12/09/16 09:35	12/10/16 07:15
500-121303-7	1314V3-17-B03 (0-7)	Solid	12/09/16 09:50	12/10/16 07:15
500-121303-8	1314V3-17-B03 (0-7)D	Solid	12/09/16 09:50	12/10/16 07:15
500-121303-9	1314V3-24-B06 (0-4)	Solid	12/09/16 11:20	12/10/16 07:15
500-121303-10	1314V3-24-B05 (0-5)	Solid	12/09/16 11:45	12/10/16 07:15
500-121303-11	1314V3-24-B05 (5-10)	Solid	12/09/16 11:50	12/10/16 07:15
500-121303-12	1314V3-24-B07 (0-5)	Solid	12/09/16 12:05	12/10/16 07:15
500-121303-13	1314V3-24-B08 (0-8)	Solid	12/09/16 12:20	12/10/16 07:15

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	12/10/16 08:55	12/12/16 19:20	1
Dibromofluoromethane	119		75 - 120	12/10/16 08:55	12/12/16 19:20	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134	12/10/16 08:55	12/12/16 19:20	1
Toluene-d8 (Surr)	108		75 - 123	12/10/16 08:55	12/12/16 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Acenaphthylene	0.0058	J	0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Phenanthrene	0.053		0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Anthracene	0.010	J	0.038	0.0064	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Fluoranthene	0.084		0.038	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Pyrene	0.086		0.038	0.0077	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Benzo[a]anthracene	0.042		0.038	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Benzo[b]fluoranthene	0.058		0.038	0.0083	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Benzo[k]fluoranthene	0.018 J		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Benzo[a]pyrene	0.041		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Indeno[1,2,3-cd]pyrene	0.024 J		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
Benzo[g,h,i]perylene	0.032 J		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		40 - 130	12/20/16 16:13	12/21/16 12:08	1
Phenol-d5	87		36 - 123	12/20/16 16:13	12/21/16 12:08	1
Nitrobenzene-d5	90		33 - 124	12/20/16 16:13	12/21/16 12:08	1
2-Fluorobiphenyl	91		42 - 115	12/20/16 16:13	12/21/16 12:08	1
2,4,6-Tribromophenol	83		25 - 130	12/20/16 16:13	12/21/16 12:08	1
Terphenyl-d14	102		25 - 150	12/20/16 16:13	12/21/16 12:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28 J F1		1.1	0.23	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Arsenic	4.4		0.55	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Barium	81 F1		0.55	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Beryllium	0.46		0.22	0.048	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Boron	4.6 F1		2.8	0.39	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Cadmium	0.30 B		0.11	0.032	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Calcium	27000 B		11	3.6	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Chromium	11		0.55	0.095	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Cobalt	7.9		0.28	0.063	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Copper	12		0.55	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Iron	12000 B		11	4.3	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Lead	23		0.28	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Magnesium	11000		5.5	2.2	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Manganese	430		0.55	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Nickel	15		0.55	0.15	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Potassium	980 F1		28	4.5	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Selenium	0.35 J B F1		0.55	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Sodium	120		55	7.3	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Thallium	<0.55 F1		0.55	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Vanadium	17		0.28	0.081	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1
Zinc	67 F1		1.1	0.35	mg/Kg	☼	12/15/16 09:32	12/15/16 17:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:31	1
Boron	0.12 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 15:31	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:31	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 15:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 15:31	1
Manganese	0.99		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:31	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 15:31	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:31	1
Zinc	0.076	J	0.50	0.020	mg/L		12/15/16 15:03	12/20/16 15:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.21		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 20:05	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 17:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.018	0.0094	mg/Kg	☼	12/15/16 17:00	12/16/16 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/16/16 15:44	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/10/16 08:55	12/12/16 19:46	1
Dibromofluoromethane	120		75 - 120	12/10/16 08:55	12/12/16 19:46	1
1,2-Dichloroethane-d4 (Surr)	132		69 - 134	12/10/16 08:55	12/12/16 19:46	1
Toluene-d8 (Surr)	107		75 - 123	12/10/16 08:55	12/12/16 19:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4-Dinitrophenol	<0.81	F1 *	0.81	0.71	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Nitrophenol	<0.81	F2	0.81	0.38	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Indeno[1,2,3-cd]pyrene	<0.040	F1	0.040	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Dibenz(a,h)anthracene	<0.040	F1	0.040	0.0078	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/20/16 16:13	12/21/16 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/20/16 16:13	12/21/16 12:36	1
Phenol-d5	71		36 - 123	12/20/16 16:13	12/21/16 12:36	1
Nitrobenzene-d5	88		33 - 124	12/20/16 16:13	12/21/16 12:36	1
2-Fluorobiphenyl	89		42 - 115	12/20/16 16:13	12/21/16 12:36	1
2,4,6-Tribromophenol	89		25 - 130	12/20/16 16:13	12/21/16 12:36	1
Terphenyl-d14	107		25 - 150	12/20/16 16:13	12/21/16 12:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Arsenic	9.5		0.61	0.28	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Barium	110		0.61	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Beryllium	0.50		0.24	0.053	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Boron	2.7	J	3.0	0.43	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Cadmium	0.093	J B	0.12	0.035	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Calcium	4300	B	12	3.9	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Chromium	14		0.61	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Cobalt	9.1		0.30	0.069	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Copper	13		0.61	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Iron	19000	B	12	4.7	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Lead	9.8		0.30	0.15	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Magnesium	3200		6.1	2.5	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Manganese	160		0.61	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Nickel	20		0.61	0.17	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Potassium	910		30	5.0	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Selenium	0.34	J B	0.61	0.30	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Sodium	140		61	8.0	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Vanadium	26		0.30	0.089	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1
Zinc	70		1.2	0.39	mg/Kg	☼	12/15/16 09:32	12/15/16 17:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:38	1
Boron	0.074	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:38	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 15:38	1
Manganese	1.4		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:38	1
Nickel	0.019	J	0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 15:38	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 15:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.52		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 20:12	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 17:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 17:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.011	mg/Kg	☼	12/15/16 17:00	12/16/16 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.2	0.2	SU			12/16/16 15:46	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/10/16 08:55	12/12/16 20:12	1
Dibromofluoromethane	119		75 - 120	12/10/16 08:55	12/12/16 20:12	1
1,2-Dichloroethane-d4 (Surr)	129		69 - 134	12/10/16 08:55	12/12/16 20:12	1
Toluene-d8 (Surr)	108		75 - 123	12/10/16 08:55	12/12/16 20:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Naphthalene	0.046		0.038	0.0059	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Methylnaphthalene	0.025 J		0.077	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4-Dinitrophenol	<0.77 *		0.77	0.67	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Acenaphthylene	0.12		0.038	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Acenaphthene	0.061		0.038	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Dibenzofuran	0.060 J		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Fluorene	0.065		0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Phenanthrene	1.2		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Anthracene	0.25		0.038	0.0064	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Carbazole	0.13 J		0.19	0.095	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Fluoranthene	2.2		0.038	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Pyrene	2.0		0.038	0.0076	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Benzo[a]anthracene	0.96		0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.94		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Benzo[b]fluoranthene	1.3		0.038	0.0082	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Benzo[k]fluoranthene	0.56		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Benzo[a]pyrene	0.92		0.038	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.0099	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Dibenz(a,h)anthracene	0.10		0.038	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
Benzo[g,h,i]perylene	0.29		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/20/16 16:13	12/21/16 18:12	1
Phenol-d5	81		36 - 123	12/20/16 16:13	12/21/16 18:12	1
Nitrobenzene-d5	82		33 - 124	12/20/16 16:13	12/21/16 18:12	1
2-Fluorobiphenyl	81		42 - 115	12/20/16 16:13	12/21/16 18:12	1
2,4,6-Tribromophenol	92		25 - 130	12/20/16 16:13	12/21/16 18:12	1
Terphenyl-d14	100		25 - 150	12/20/16 16:13	12/21/16 18:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.0	0.21	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Arsenic	5.9		0.50	0.23	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Barium	110		0.50	0.092	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Beryllium	0.61		0.20	0.043	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Boron	4.7		2.5	0.35	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Cadmium	0.46	B	0.10	0.029	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Calcium	57000	B	100	32	mg/Kg	☼	12/15/16 09:32	12/18/16 21:44	10
Chromium	14		0.50	0.086	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Cobalt	8.4		0.25	0.057	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Copper	34		0.50	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Iron	16000	B	10	3.9	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Lead	100		0.25	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Magnesium	3200		5.0	2.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Manganese	650		0.50	0.099	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Nickel	19		0.50	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Potassium	990		25	4.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Selenium	0.96	B	0.50	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Sodium	97		50	6.6	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Vanadium	22		0.25	0.073	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1
Zinc	160		1.0	0.32	mg/Kg	☼	12/15/16 09:32	12/15/16 18:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:45	1
Boron	0.11	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Lead	0.013		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:00	1
Manganese	1.2		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:45	1
Zinc	0.20	J	0.50	0.020	mg/L	-	12/15/16 15:03	12/20/16 15:45	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.0075	0.0075	mg/L	-	12/15/16 14:57	12/19/16 20:19	1
Manganese	0.39		0.025	0.010	mg/L	-	12/15/16 14:57	12/19/16 20:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 15:03	12/16/16 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 15:03	12/16/16 17:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44		0.018	0.0095	mg/Kg	☼	12/15/16 17:00	12/16/16 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/16/16 15:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/10/16 08:55	12/12/16 20:38	1
Dibromofluoromethane	119		75 - 120	12/10/16 08:55	12/12/16 20:38	1
1,2-Dichloroethane-d4 (Surr)	127		69 - 134	12/10/16 08:55	12/12/16 20:38	1
Toluene-d8 (Surr)	109		75 - 123	12/10/16 08:55	12/12/16 20:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Phenanthrene	0.026	J	0.036	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Fluoranthene	0.053		0.036	0.0067	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Pyrene	0.045		0.036	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Benzo[a]anthracene	0.024	J	0.036	0.0049	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.036	0.0099	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Benzo[b]fluoranthene	0.036		0.036	0.0078	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Benzo[k]fluoranthene	0.015	J	0.036	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Benzo[a]pyrene	0.024	J	0.036	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.036	0.0094	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
Benzo[g,h,i]perylene	0.016	J	0.036	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/20/16 16:13	12/21/16 13:04	1
Phenol-d5	83		36 - 123	12/20/16 16:13	12/21/16 13:04	1
Nitrobenzene-d5	87		33 - 124	12/20/16 16:13	12/21/16 13:04	1
2-Fluorobiphenyl	88		42 - 115	12/20/16 16:13	12/21/16 13:04	1
2,4,6-Tribromophenol	82		25 - 130	12/20/16 16:13	12/21/16 13:04	1
Terphenyl-d14	104		25 - 150	12/20/16 16:13	12/21/16 13:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Arsenic	5.6		0.54	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Barium	64		0.54	0.099	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Beryllium	0.54		0.22	0.047	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Boron	2.0	J	2.7	0.38	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Cadmium	0.13	B	0.11	0.031	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Calcium	30000	B	11	3.5	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Chromium	11		0.54	0.093	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Cobalt	9.9		0.27	0.061	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Copper	11		0.54	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Iron	19000	B	11	4.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Lead	13		0.27	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Magnesium	14000		5.4	2.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Manganese	640		0.54	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Nickel	20		0.54	0.15	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Potassium	550		27	4.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Selenium	0.28	J B	0.54	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Sodium	83		54	7.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Vanadium	21		0.27	0.079	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1
Zinc	43		1.1	0.34	mg/Kg	☼	12/15/16 09:32	12/15/16 18:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:51	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 91.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 15:51	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:51	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:51	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 15:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 15:51	1
Manganese	3.0		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:51	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:51	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 15:51	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:51	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 15:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 20:26	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 17:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 17:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0092	mg/Kg	☼	12/15/16 17:00	12/16/16 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			12/16/16 15:52	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.013		0.013	0.0059	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Benzene	<0.0013		0.0013	0.00034	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Bromodichloromethane	<0.0013		0.0013	0.00027	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Bromoform	<0.0013		0.0013	0.00039	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Bromomethane	<0.0034		0.0034	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
2-Butanone (MEK)	<0.0034		0.0034	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Carbon disulfide	<0.0034		0.0034	0.00070	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Carbon tetrachloride	<0.0013		0.0013	0.00039	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Chlorobenzene	<0.0013		0.0013	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Chloroethane	<0.0034		0.0034	0.00099	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Chloroform	<0.0013		0.0013	0.00047	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Chloromethane	<0.0034		0.0034	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
cis-1,2-Dichloroethene	<0.0013		0.0013	0.00038	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
cis-1,3-Dichloropropene	<0.0013		0.0013	0.00041	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Dibromochloromethane	<0.0013		0.0013	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,1-Dichloroethane	<0.0013		0.0013	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,2-Dichloroethane	<0.0034		0.0034	0.0010	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,1-Dichloroethene	<0.0013		0.0013	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,2-Dichloropropane	<0.0013		0.0013	0.00035	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,3-Dichloropropane, Total	<0.0013		0.0013	0.00047	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Ethylbenzene	<0.0013		0.0013	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
2-Hexanone	<0.0034		0.0034	0.0010	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Methylene Chloride	<0.0034		0.0034	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.00099	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Methyl tert-butyl ether	<0.0013		0.0013	0.00039	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Styrene	<0.0013		0.0013	0.00041	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0013	0.00043	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Tetrachloroethene	<0.0013		0.0013	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Toluene	<0.0013		0.0013	0.00034	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
trans-1,2-Dichloroethene	<0.0013		0.0013	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
trans-1,3-Dichloropropene	<0.0013		0.0013	0.00047	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,1,1-Trichloroethane	<0.0013		0.0013	0.00045	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
1,1,2-Trichloroethane	<0.0013		0.0013	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Trichloroethene	<0.0013		0.0013	0.00045	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Vinyl acetate	<0.0034		0.0034	0.0012	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Vinyl chloride	<0.0013		0.0013	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1
Xylenes, Total	<0.0027		0.0027	0.00043	mg/Kg	☼	12/10/16 08:55	12/12/16 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/10/16 08:55	12/12/16 21:04	1
Dibromofluoromethane	121	X	75 - 120	12/10/16 08:55	12/12/16 21:04	1
1,2-Dichloroethane-d4 (Surr)	130		69 - 134	12/10/16 08:55	12/12/16 21:04	1
Toluene-d8 (Surr)	112		75 - 123	12/10/16 08:55	12/12/16 21:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Naphthalene	0.0076	J	0.038	0.0059	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Methylnaphthalene	0.0084	J	0.077	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Acenaphthene	0.015	J	0.038	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Fluorene	0.0076	J	0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Phenanthrene	0.085		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Anthracene	0.016	J	0.038	0.0064	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Fluoranthene	0.12		0.038	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Pyrene	0.11		0.038	0.0076	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Benzo[a]anthracene	0.059		0.038	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.066		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Benzo[b]fluoranthene	0.11		0.038	0.0083	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Benzo[a]pyrene	0.075		0.038	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Indeno[1,2,3-cd]pyrene	0.053		0.038	0.0099	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Dibenz(a,h)anthracene	0.017	J	0.038	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
Benzo[g,h,i]perylene	0.061		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/20/16 16:13	12/21/16 13:32	1
Phenol-d5	77		36 - 123	12/20/16 16:13	12/21/16 13:32	1
Nitrobenzene-d5	80		33 - 124	12/20/16 16:13	12/21/16 13:32	1
2-Fluorobiphenyl	79		42 - 115	12/20/16 16:13	12/21/16 13:32	1
2,4,6-Tribromophenol	79		25 - 130	12/20/16 16:13	12/21/16 13:32	1
Terphenyl-d14	95		25 - 150	12/20/16 16:13	12/21/16 13:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Arsenic	5.6		0.55	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Barium	74		0.55	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Beryllium	0.40		0.22	0.048	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Boron	3.4		2.7	0.38	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Cadmium	0.28	B	0.11	0.032	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Calcium	19000	B	11	3.5	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Chromium	12		0.55	0.094	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Cobalt	8.0		0.27	0.062	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Copper	17		0.55	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Iron	14000	B	11	4.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Lead	41		0.27	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Magnesium	9600		5.5	2.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Manganese	460		0.55	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Nickel	18		0.55	0.15	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Potassium	780		27	4.5	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Sodium	240		55	7.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Vanadium	18		0.27	0.080	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1
Zinc	64		1.1	0.35	mg/Kg	☼	12/15/16 09:32	12/15/16 18:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:58	1
Boron	0.079	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Cobalt	0.018	J	0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Iron	<0.40		0.40	0.20	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Manganese	5.4		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Nickel	0.036		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Silver	<0.025		0.025	0.010	mg/L	-	12/15/16 15:03	12/20/16 15:58	1
Zinc	0.062	J	0.50	0.020	mg/L	-	12/15/16 15:03	12/20/16 15:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.055		0.025	0.010	mg/L	-	12/15/16 14:57	12/19/16 20:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/15/16 15:03	12/16/16 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/15/16 15:03	12/16/16 17:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/15/16 13:00	12/16/16 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.019	0.0099	mg/Kg	☼	12/15/16 17:00	12/16/16 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU	-		12/16/16 15:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0093	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Vinyl acetate	<0.0053		0.0053	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/10/16 08:55	12/12/16 21:30	1
Dibromofluoromethane	121	X	75 - 120	12/10/16 08:55	12/12/16 21:30	1
1,2-Dichloroethane-d4 (Surr)	131		69 - 134	12/10/16 08:55	12/12/16 21:30	1
Toluene-d8 (Surr)	109		75 - 123	12/10/16 08:55	12/12/16 21:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Naphthalene	0.25		0.040	0.0062	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Methylnaphthalene	0.50		0.081	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Acenaphthylene	0.074		0.040	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Acenaphthene	0.060		0.040	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Dibenzofuran	0.16	J	0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Fluorene	0.074		0.040	0.0056	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Phenanthrene	1.9		0.040	0.0056	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Anthracene	0.30		0.040	0.0067	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Carbazole	0.22		0.20	0.10	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Fluoranthene	2.7		0.040	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Pyrene	2.6		0.040	0.0080	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Benzo[a]anthracene	1.1		0.040	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.5		0.040	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Benzo[b]fluoranthene	1.7		0.040	0.0087	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Benzo[k]fluoranthene	0.96		0.040	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Benzo[a]pyrene	1.1		0.040	0.0078	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Indeno[1,2,3-cd]pyrene	0.31		0.040	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Dibenz(a,h)anthracene	0.087		0.040	0.0078	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
Benzo[g,h,i]perylene	0.30		0.040	0.013	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/20/16 16:13	12/21/16 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/20/16 16:13	12/21/16 18:40	1
Phenol-d5	75		36 - 123	12/20/16 16:13	12/21/16 18:40	1
Nitrobenzene-d5	74		33 - 124	12/20/16 16:13	12/21/16 18:40	1
2-Fluorobiphenyl	74		42 - 115	12/20/16 16:13	12/21/16 18:40	1
2,4,6-Tribromophenol	98		25 - 130	12/20/16 16:13	12/21/16 18:40	1
Terphenyl-d14	91		25 - 150	12/20/16 16:13	12/21/16 18:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.5		5.5	1.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Arsenic	15		2.8	1.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Barium	210		2.8	0.51	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Beryllium	1.1		1.1	0.24	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Boron	26		14	1.9	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Cadmium	1.5 B		0.55	0.16	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Calcium	5500 B		55	18	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Chromium	16		2.8	0.48	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Cobalt	9.3		1.4	0.31	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Copper	120		2.8	0.60	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Iron	32000 B		55	21	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Lead	360		1.4	0.69	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Magnesium	1300		28	11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Manganese	370		2.8	0.55	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Nickel	21		2.8	0.75	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Potassium	890		140	23	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Selenium	3.0 B		2.8	1.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Silver	<1.4		1.4	0.32	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Sodium	1100		280	37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Vanadium	27		1.4	0.40	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5
Zinc	460		5.5	1.8	mg/Kg	☼	12/15/16 09:32	12/15/16 18:22	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:05	1
Boron	0.30 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:05	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:05	1
Cobalt	0.019	J	0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:05	1
Iron	1.2		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:05	1
Lead	0.072		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 12:04	1
Manganese	2.0		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:05	1
Nickel	0.014	J	0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:05	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:05	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:05	1
Zinc	1.3		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.29		0.0075	0.0075	mg/L		12/15/16 14:57	12/19/16 20:55	1
Manganese	0.50		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 20:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 17:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.019	0.0098	mg/Kg	☼	12/15/16 17:00	12/16/16 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1		0.2	0.2	SU			12/16/16 15:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	12/10/16 08:55	12/12/16 21:56	1
Dibromofluoromethane	120		75 - 120	12/10/16 08:55	12/12/16 21:56	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/10/16 08:55	12/12/16 21:56	1
Toluene-d8 (Surr)	109		75 - 123	12/10/16 08:55	12/12/16 21:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130	12/20/16 16:13	12/21/16 14:00	1
Phenol-d5	74		36 - 123	12/20/16 16:13	12/21/16 14:00	1
Nitrobenzene-d5	77		33 - 124	12/20/16 16:13	12/21/16 14:00	1
2-Fluorobiphenyl	74		42 - 115	12/20/16 16:13	12/21/16 14:00	1
2,4,6-Tribromophenol	81		25 - 130	12/20/16 16:13	12/21/16 14:00	1
Terphenyl-d14	95		25 - 150	12/20/16 16:13	12/21/16 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Arsenic	5.5		0.58	0.27	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Barium	46		0.58	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Beryllium	0.38		0.23	0.050	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Boron	1.8 J		2.9	0.40	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Cadmium	0.12 B		0.12	0.033	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Calcium	7200 B		12	3.7	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Chromium	10		0.58	0.099	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Cobalt	6.6		0.29	0.065	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Copper	8.1		0.58	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Iron	11000 B		12	4.5	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Lead	7.5		0.29	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Magnesium	4500		5.8	2.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Manganese	290		0.58	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Nickel	13		0.58	0.16	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Potassium	440		29	4.7	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Selenium	0.41 J B		0.58	0.29	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Sodium	570		58	7.6	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Vanadium	19		0.29	0.084	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1
Zinc	28		1.2	0.37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:12	1
Boron	0.060 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:12	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:12	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 16:12	1
Manganese	0.56		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:12	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:12	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:12	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.78		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 21:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0096	mg/Kg	☼	12/15/16 17:00	12/16/16 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			12/16/16 15:59	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	12/10/16 08:55	12/12/16 22:22	1
Dibromofluoromethane	119		75 - 120	12/10/16 08:55	12/12/16 22:22	1
1,2-Dichloroethane-d4 (Surr)	128		69 - 134	12/10/16 08:55	12/12/16 22:22	1
Toluene-d8 (Surr)	108		75 - 123	12/10/16 08:55	12/12/16 22:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4-Dinitrophenol	<0.76	*	0.76	0.67	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/20/16 16:13	12/21/16 15:52	1
Phenol-d5	72		36 - 123	12/20/16 16:13	12/21/16 15:52	1
Nitrobenzene-d5	73		33 - 124	12/20/16 16:13	12/21/16 15:52	1
2-Fluorobiphenyl	71		42 - 115	12/20/16 16:13	12/21/16 15:52	1
2,4,6-Tribromophenol	72		25 - 130	12/20/16 16:13	12/21/16 15:52	1
Terphenyl-d14	94		25 - 150	12/20/16 16:13	12/21/16 15:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Arsenic	5.0		0.53	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Barium	40		0.53	0.098	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Beryllium	0.37		0.21	0.046	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Boron	1.8 J		2.7	0.37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Cadmium	0.091 J B		0.11	0.031	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Calcium	9000 B		11	3.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Chromium	10		0.53	0.092	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Cobalt	5.8		0.27	0.060	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Copper	8.3		0.53	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Iron	11000 B		11	4.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Lead	7.5		0.27	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Magnesium	5600		5.3	2.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Manganese	190		0.53	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Nickel	12		0.53	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Potassium	450		27	4.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Selenium	0.54 B		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Sodium	570		53	7.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Vanadium	18		0.27	0.078	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1
Zinc	29		1.1	0.34	mg/Kg	☼	12/15/16 09:32	12/15/16 18:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:18	1
Boron	0.051 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:18	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:18	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:18	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 16:18	1
Manganese	0.58		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:18	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:18	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:18	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:18	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2	F1	0.025	0.010	mg/L		12/15/16 14:57	12/19/16 21:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0091	mg/Kg	☼	12/15/16 17:00	12/16/16 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/16/16 16:02	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Tetrachloroethene	0.0096		0.0018	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/10/16 08:55	12/12/16 22:48	1
Dibromofluoromethane	117		75 - 120	12/10/16 08:55	12/12/16 22:48	1
1,2-Dichloroethane-d4 (Surr)	124		69 - 134	12/10/16 08:55	12/12/16 22:48	1
Toluene-d8 (Surr)	110		75 - 123	12/10/16 08:55	12/12/16 22:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Fluoranthene	0.081		0.038	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Pyrene	0.067		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Benzo[b]fluoranthene	0.082		0.038	0.0081	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Benzo[k]fluoranthene	0.026 J		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Benzo[a]pyrene	0.044		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Indeno[1,2,3-cd]pyrene	0.019 J		0.038	0.0098	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
Benzo[g,h,i]perylene	0.024 J		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130	12/20/16 16:13	12/21/16 19:08	1
Phenol-d5	73		36 - 123	12/20/16 16:13	12/21/16 19:08	1
Nitrobenzene-d5	78		33 - 124	12/20/16 16:13	12/21/16 19:08	1
2-Fluorobiphenyl	78		42 - 115	12/20/16 16:13	12/21/16 19:08	1
2,4,6-Tribromophenol	77		25 - 130	12/20/16 16:13	12/21/16 19:08	1
Terphenyl-d14	102		25 - 150	12/20/16 16:13	12/21/16 19:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.93		0.93	0.19	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Arsenic	5.8		0.46	0.21	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Barium	110		0.46	0.085	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Beryllium	0.37		0.19	0.040	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Boron	2.3		2.3	0.32	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Cadmium	0.19 B		0.093	0.027	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Calcium	13000 B		9.3	3.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Chromium	11		0.46	0.080	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Cobalt	12		0.23	0.052	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Copper	10		0.46	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Iron	12000 B		9.3	3.6	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Lead	13		0.23	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Magnesium	7500		4.6	1.9	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Manganese	860		0.46	0.092	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Nickel	18		0.46	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Potassium	600		23	3.8	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Selenium	1.0 B		0.46	0.23	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Sodium	820		46	6.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Vanadium	20		0.23	0.068	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1
Zinc	42		0.93	0.29	mg/Kg	☼	12/15/16 09:32	12/15/16 18:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:41	1
Boron	0.055 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 87.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:41	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:41	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 16:41	1
Manganese	0.73		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:41	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:41	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:41	1
Zinc	0.032	J	0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 21:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0088	mg/Kg	☼	12/15/16 17:00	12/16/16 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0		0.2	0.2	SU			12/16/16 16:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/10/16 08:55	12/12/16 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/10/16 08:55	12/12/16 23:14	1
Dibromofluoromethane	124	X	75 - 120	12/10/16 08:55	12/12/16 23:14	1
1,2-Dichloroethane-d4 (Surr)	138	X	69 - 134	12/10/16 08:55	12/12/16 23:14	1
Toluene-d8 (Surr)	108		75 - 123	12/10/16 08:55	12/12/16 23:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Naphthalene	0.011	J	0.037	0.0057	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Methylnaphthalene	0.014	J	0.075	0.0068	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Acenaphthylene	0.0089	J	0.037	0.0049	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Acenaphthene	0.040		0.037	0.0066	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Fluorene	0.025	J	0.037	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Phenanthrene	0.53		0.037	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Anthracene	0.077		0.037	0.0062	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Fluoranthene	0.60		0.037	0.0069	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Pyrene	0.64		0.037	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Benzo[a]anthracene	0.27		0.037	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.31		0.037	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Benzo[b]fluoranthene	0.34		0.037	0.0080	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Benzo[k]fluoranthene	0.12		0.037	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Benzo[a]pyrene	0.24		0.037	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Indeno[1,2,3-cd]pyrene	0.084		0.037	0.0096	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Dibenz(a,h)anthracene	0.030	J	0.037	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
Benzo[g,h,i]perylene	0.091		0.037	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130	12/20/16 16:13	12/21/16 17:44	1
Phenol-d5	90		36 - 123	12/20/16 16:13	12/21/16 17:44	1
Nitrobenzene-d5	87		33 - 124	12/20/16 16:13	12/21/16 17:44	1
2-Fluorobiphenyl	84		42 - 115	12/20/16 16:13	12/21/16 17:44	1
2,4,6-Tribromophenol	100		25 - 130	12/20/16 16:13	12/21/16 17:44	1
Terphenyl-d14	104		25 - 150	12/20/16 16:13	12/21/16 17:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5		1.1	0.24	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Arsenic	9.0		0.57	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Barium	84		0.57	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Beryllium	0.76		0.23	0.049	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Boron	13		2.8	0.40	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Cadmium	0.51	B	0.11	0.033	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Calcium	9800	B	11	3.6	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Chromium	11		0.57	0.097	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Cobalt	6.3		0.28	0.064	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Copper	83		0.57	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Iron	29000	B	11	4.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Lead	220		0.28	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Magnesium	2200		5.7	2.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Manganese	290		0.57	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Nickel	17		0.57	0.15	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Potassium	690		28	4.6	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Selenium	0.47	J B	0.57	0.28	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Sodium	390		57	7.5	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Vanadium	20		0.28	0.083	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1
Zinc	200		1.1	0.36	mg/Kg	☼	12/15/16 09:32	12/15/16 18:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:48	1
Boron	0.082	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:48	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:48	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:48	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:48	1
Lead	0.021		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 12:09	1
Manganese	0.99		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:48	1
Nickel	0.014	J	0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:48	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:48	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:48	1
Zinc	0.21	J	0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:48	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		12/15/16 14:57	12/19/16 21:42	1
Manganese	0.31		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 21:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0075		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.017		0.0060	0.0060	mg/L		12/15/16 14:57	12/20/16 12:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0090	mg/Kg	✱	12/15/16 17:00	12/16/16 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			12/16/16 16:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/10/16 08:55	12/13/16 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/10/16 08:55	12/13/16 16:37	1
Dibromofluoromethane	118		75 - 120	12/10/16 08:55	12/13/16 16:37	1
1,2-Dichloroethane-d4 (Surr)	132		69 - 134	12/10/16 08:55	12/13/16 16:37	1
Toluene-d8 (Surr)	107		75 - 123	12/10/16 08:55	12/13/16 16:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4-Dinitrophenol	<0.76	*	0.76	0.67	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		40 - 130				12/20/16 16:13	12/21/16 16:20	1
Phenol-d5	64		36 - 123				12/20/16 16:13	12/21/16 16:20	1
Nitrobenzene-d5	72		33 - 124				12/20/16 16:13	12/21/16 16:20	1
2-Fluorobiphenyl	74		42 - 115				12/20/16 16:13	12/21/16 16:20	1
2,4,6-Tribromophenol	75		25 - 130				12/20/16 16:13	12/21/16 16:20	1
Terphenyl-d14	98		25 - 150				12/20/16 16:13	12/21/16 16:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Arsenic	6.2		0.53	0.25	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Barium	100		0.53	0.097	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Beryllium	0.49		0.21	0.046	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Boron	2.3 J		2.7	0.37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Cadmium	0.23 B		0.11	0.031	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Calcium	3100 B		11	3.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Chromium	15		0.53	0.091	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Cobalt	10		0.27	0.060	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Copper	13		0.53	0.12	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Iron	15000 B		11	4.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Lead	10		0.27	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Magnesium	2300		5.3	2.2	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Manganese	520		0.53	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Nickel	23		0.53	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Potassium	780		27	4.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Selenium	0.54 B		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Sodium	570		53	7.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Vanadium	25		0.27	0.077	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1
Zinc	45		1.1	0.34	mg/Kg	☼	12/15/16 09:32	12/15/16 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 16:55	1
Boron	0.088 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 16:55	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:55	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:55	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 16:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 16:55	1
Manganese	0.023	J	0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:55	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 16:55	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 16:55	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 16:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0097	mg/Kg	☼	12/15/16 17:00	12/16/16 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			12/16/16 16:10	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.010	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Benzene	<0.0024		0.0024	0.00060	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Bromodichloromethane	<0.0024		0.0024	0.00048	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Bromoform	<0.0024		0.0024	0.00069	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
2-Butanone (MEK)	<0.0059		0.0059	0.0026	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Carbon disulfide	<0.0059		0.0059	0.0012	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Carbon tetrachloride	<0.0024		0.0024	0.00069	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Chlorobenzene	<0.0024		0.0024	0.00087	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Chloroethane	<0.0059		0.0059	0.0017	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Chloroform	<0.0024		0.0024	0.00082	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Chloromethane	<0.0059		0.0059	0.0024	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00066	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00071	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Dibromochloromethane	<0.0024		0.0024	0.00077	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,1-Dichloroethane	<0.0024		0.0024	0.00081	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,2-Dichloroethane	<0.0059		0.0059	0.0018	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,1-Dichloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,2-Dichloropropane	<0.0024		0.0024	0.00061	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,3-Dichloropropene, Total	<0.0024		0.0024	0.00083	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Methylene Chloride	<0.0059		0.0059	0.0023	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0017	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00069	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Styrene	<0.0024		0.0024	0.00071	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00076	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Tetrachloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Toluene	<0.0024		0.0024	0.00060	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0010	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00083	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00079	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Trichloroethene	<0.0024		0.0024	0.00080	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Vinyl acetate	<0.0059		0.0059	0.0021	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Vinyl chloride	<0.0024		0.0024	0.0010	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1
Xylenes, Total	<0.0047		0.0047	0.00076	mg/Kg	☼	12/10/16 08:55	12/13/16 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 120	12/10/16 08:55	12/13/16 14:26	1
Dibromofluoromethane	125	X	75 - 120	12/10/16 08:55	12/13/16 14:26	1
1,2-Dichloroethane-d4 (Surr)	129		69 - 134	12/10/16 08:55	12/13/16 14:26	1
Toluene-d8 (Surr)	119		75 - 123	12/10/16 08:55	12/13/16 14:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Naphthalene	0.0072	J	0.038	0.0060	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Methylnaphthalene	0.0078	J	0.078	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Phenanthrene	0.030	J	0.038	0.0054	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Fluoranthene	0.074		0.038	0.0072	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Pyrene	0.077		0.038	0.0077	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Benzo[a]anthracene	0.044		0.038	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.052		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Benzo[b]fluoranthene	0.066		0.038	0.0084	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Benzo[k]fluoranthene	0.025 J		0.038	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Benzo[a]pyrene	0.047		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Indeno[1,2,3-cd]pyrene	0.023 J		0.038	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
Benzo[g,h,i]perylene	0.028 J		0.038	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		40 - 130	12/20/16 16:13	12/21/16 16:48	1
Phenol-d5	74		36 - 123	12/20/16 16:13	12/21/16 16:48	1
Nitrobenzene-d5	84		33 - 124	12/20/16 16:13	12/21/16 16:48	1
2-Fluorobiphenyl	82		42 - 115	12/20/16 16:13	12/21/16 16:48	1
2,4,6-Tribromophenol	89		25 - 130	12/20/16 16:13	12/21/16 16:48	1
Terphenyl-d14	99		25 - 150	12/20/16 16:13	12/21/16 16:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.0	0.22	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Arsenic	5.2		0.52	0.24	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Barium	80		0.52	0.096	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Beryllium	0.60		0.21	0.045	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Boron	5.9		2.6	0.37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Cadmium	0.44 B		0.10	0.030	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Calcium	11000 B		10	3.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Chromium	12		0.52	0.090	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Cobalt	6.1		0.26	0.059	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Copper	28		0.52	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Iron	18000 B		10	4.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Lead	120		0.26	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Magnesium	2000		5.2	2.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Manganese	270		0.52	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Nickel	15		0.52	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Potassium	820		26	4.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Selenium	0.65 B		0.52	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Sodium	560		52	6.9	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Vanadium	17		0.26	0.076	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1
Zinc	150		1.0	0.33	mg/Kg	☼	12/15/16 09:32	12/15/16 18:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 17:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 17:01	1
Boron	0.074 J		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 82.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 17:01	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:01	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:01	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 17:01	1
Lead	0.030		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 12:14	1
Manganese	1.1		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:01	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 17:01	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:01	1
Zinc	0.13 J		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 17:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.17		0.0075	0.0075	mg/L		12/15/16 14:57	12/19/16 22:12	1
Manganese	0.45		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 22:12	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.091	0.048	mg/Kg	☼	12/15/16 17:00	12/16/16 13:47	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/16/16 16:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/10/16 08:55	12/13/16 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/10/16 08:55	12/13/16 00:32	1
Dibromofluoromethane	118		75 - 120	12/10/16 08:55	12/13/16 00:32	1
1,2-Dichloroethane-d4 (Surr)	122		69 - 134	12/10/16 08:55	12/13/16 00:32	1
Toluene-d8 (Surr)	111		75 - 123	12/10/16 08:55	12/13/16 00:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Fluorene	0.0056	J	0.039	0.0056	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Phenanthrene	0.12		0.039	0.0055	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Anthracene	0.016	J	0.039	0.0066	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Fluoranthene	0.18		0.039	0.0074	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Pyrene	0.18		0.039	0.0079	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Benzo[a]anthracene	0.081		0.039	0.0053	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.093		0.039	0.011	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Benzo[b]fluoranthene	0.10		0.039	0.0086	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Benzo[k]fluoranthene	0.046		0.039	0.012	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Benzo[a]pyrene	0.080		0.039	0.0077	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Dibenz(a,h)anthracene	0.012	J	0.039	0.0077	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
Benzo[g,h,i]perylene	0.039		0.039	0.013	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/20/16 16:13	12/21/16 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		40 - 130	12/20/16 16:13	12/21/16 17:16	1
Phenol-d5	71		36 - 123	12/20/16 16:13	12/21/16 17:16	1
Nitrobenzene-d5	77		33 - 124	12/20/16 16:13	12/21/16 17:16	1
2-Fluorobiphenyl	76		42 - 115	12/20/16 16:13	12/21/16 17:16	1
2,4,6-Tribromophenol	81		25 - 130	12/20/16 16:13	12/21/16 17:16	1
Terphenyl-d14	99		25 - 150	12/20/16 16:13	12/21/16 17:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Arsenic	14		0.53	0.24	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Barium	84		0.53	0.097	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Beryllium	0.43		0.21	0.046	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Boron	3.2		2.6	0.37	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Cadmium	0.20	B	0.11	0.031	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Calcium	5300	B	11	3.4	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Chromium	12		0.53	0.091	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Cobalt	4.5		0.26	0.060	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Copper	14		0.53	0.11	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Iron	10000	B	11	4.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Lead	18		0.26	0.13	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Magnesium	2000		5.3	2.1	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Manganese	170		0.53	0.10	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Nickel	13		0.53	0.14	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Potassium	860		26	4.3	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Sodium	490		53	7.0	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Vanadium	12		0.26	0.077	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1
Zinc	52		1.1	0.33	mg/Kg	☼	12/15/16 09:32	12/15/16 18:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 17:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 17:20	1
Boron	0.076	J	0.50	0.050	mg/L		12/15/16 15:03	12/20/16 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 17:20	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:20	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:20	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 17:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 17:20	1
Manganese	0.050		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:20	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:20	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 17:20	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 17:20	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 17:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 18:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 18:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0099	mg/Kg	✱	12/15/16 17:00	12/16/16 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/16/16 16:15	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

GC/MS VOA

Prep Batch: 364581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	5035	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	5035	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	5035	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	5035	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	5035	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	5035	
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	5035	
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	5035	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	5035	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	5035	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	5035	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	5035	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 364654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	8260B	364581
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	8260B	364581
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	8260B	364581
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	8260B	364581
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	8260B	364581
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	8260B	364581
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	8260B	364581
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	8260B	364581
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	8260B	364581
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	8260B	364581
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	8260B	364581
MB 500-364654/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-364654/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364654/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 364850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	8260B	364581
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	8260B	364581
MB 500-364850/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-364850/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-364850/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 366006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	3541	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	3541	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	3541	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	3541	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	3541	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	3541	
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

GC/MS Semi VOA (Continued)

Prep Batch: 366006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	3541	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	3541	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	3541	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	3541	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	3541	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	3541	
MB 500-366006/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-366006/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121303-2 MS	1314V3-05-B02 (6-10.6)	Total/NA	Solid	3541	
500-121303-2 MSD	1314V3-05-B02 (6-10.6)	Total/NA	Solid	3541	

Analysis Batch: 366067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	8270D	366006
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	8270D	366006
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	8270D	366006
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	8270D	366006
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	8270D	366006
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	8270D	366006
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	8270D	366006
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	8270D	366006
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	8270D	366006
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	8270D	366006
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	8270D	366006
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	8270D	366006
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	8270D	366006
MB 500-366006/1-A	Method Blank	Total/NA	Solid	8270D	366006
LCS 500-366006/2-A	Lab Control Sample	Total/NA	Solid	8270D	366006
500-121303-2 MS	1314V3-05-B02 (6-10.6)	Total/NA	Solid	8270D	366006
500-121303-2 MSD	1314V3-05-B02 (6-10.6)	Total/NA	Solid	8270D	366006

Metals

Leach Batch: 365087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	SPLP East	Solid	1312	
500-121303-2	1314V3-05-B02 (6-10.6)	SPLP East	Solid	1312	
500-121303-3	1314V3-05-B03 (0-5.9)	SPLP East	Solid	1312	
500-121303-4	1314V3-05-B01 (0-5)	SPLP East	Solid	1312	
500-121303-5	1314V3-17-B01 (0-7)	SPLP East	Solid	1312	
500-121303-6	1314V3-17-B02 (0-7)	SPLP East	Solid	1312	
500-121303-7	1314V3-17-B03 (0-7)	SPLP East	Solid	1312	
500-121303-8	1314V3-17-B03 (0-7)D	SPLP East	Solid	1312	
500-121303-9	1314V3-24-B06 (0-4)	SPLP East	Solid	1312	
500-121303-10	1314V3-24-B05 (0-5)	SPLP East	Solid	1312	
500-121303-12	1314V3-24-B07 (0-5)	SPLP East	Solid	1312	
LB 500-365087/1-B	Method Blank	SPLP East	Solid	1312	
500-121303-8 MS	1314V3-17-B03 (0-7)D	SPLP East	Solid	1312	
500-121303-8 DU	1314V3-17-B03 (0-7)D	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Leach Batch: 365093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	1311	
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	1311	
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	1311	
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	1311	
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	1311	
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	1311	
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	1311	
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	1311	
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	1311	
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	1311	
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	1311	
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	1311	
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	1311	
LB 500-365093/1-B	Method Blank	TCLP	Solid	1311	
LB 500-365093/1-C	Method Blank	TCLP	Solid	1311	
500-121303-1 MS	1314V3-05-B02 (0-6)	TCLP	Solid	1311	
500-121303-13 MS	1314V3-24-B08 (0-8)	TCLP	Solid	1311	
500-121303-1 DU	1314V3-05-B02 (0-6)	TCLP	Solid	1311	
500-121303-13 DU	1314V3-24-B08 (0-8)	TCLP	Solid	1311	

Prep Batch: 365252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	3050B	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	3050B	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	3050B	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	3050B	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	3050B	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	3050B	
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	3050B	
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	3050B	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	3050B	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	3050B	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	3050B	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	3050B	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	3050B	
MB 500-365252/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-365252/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121303-1 MS	1314V3-05-B02 (0-6)	Total/NA	Solid	3050B	
500-121303-1 MSD	1314V3-05-B02 (0-6)	Total/NA	Solid	3050B	
500-121303-1 DU	1314V3-05-B02 (0-6)	Total/NA	Solid	3050B	

Prep Batch: 365289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365093
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	7470A	365093
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	7470A	365093
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	7470A	365093
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	7470A	365093
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	7470A	365093
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	7470A	365093
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	7470A	365093

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Prep Batch: 365289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	7470A	365093
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	7470A	365093
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	7470A	365093
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	7470A	365093
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	7470A	365093
LB 500-365093/1-B	Method Blank	TCLP	Solid	7470A	365093
MB 500-365289/35-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-365289/36-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121303-1 MS	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365093
500-121303-1 DU	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365093

Prep Batch: 365308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	SPLP East	Solid	3010A	365087
500-121303-2	1314V3-05-B02 (6-10.6)	SPLP East	Solid	3010A	365087
500-121303-3	1314V3-05-B03 (0-5.9)	SPLP East	Solid	3010A	365087
500-121303-4	1314V3-05-B01 (0-5)	SPLP East	Solid	3010A	365087
500-121303-5	1314V3-17-B01 (0-7)	SPLP East	Solid	3010A	365087
500-121303-6	1314V3-17-B02 (0-7)	SPLP East	Solid	3010A	365087
500-121303-7	1314V3-17-B03 (0-7)	SPLP East	Solid	3010A	365087
500-121303-8	1314V3-17-B03 (0-7)D	SPLP East	Solid	3010A	365087
500-121303-9	1314V3-24-B06 (0-4)	SPLP East	Solid	3010A	365087
500-121303-10	1314V3-24-B05 (0-5)	SPLP East	Solid	3010A	365087
500-121303-12	1314V3-24-B07 (0-5)	SPLP East	Solid	3010A	365087
LB 500-365087/1-B	Method Blank	SPLP East	Solid	3010A	365087
LCS 500-365308/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121303-8 MS	1314V3-17-B03 (0-7)D	SPLP East	Solid	3010A	365087
500-121303-8 DU	1314V3-17-B03 (0-7)D	SPLP East	Solid	3010A	365087

Prep Batch: 365312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	3010A	365093
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	3010A	365093
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	3010A	365093
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	3010A	365093
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	3010A	365093
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	3010A	365093
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	3010A	365093
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	3010A	365093
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	3010A	365093
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	3010A	365093
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	3010A	365093
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	3010A	365093
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	3010A	365093
LB 500-365093/1-C	Method Blank	TCLP	Solid	3010A	365093
LCS 500-365312/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121303-13 MS	1314V3-24-B08 (0-8)	TCLP	Solid	3010A	365093
500-121303-13 DU	1314V3-24-B08 (0-8)	TCLP	Solid	3010A	365093

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Prep Batch: 365341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	7471B	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	7471B	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	7471B	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	7471B	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	7471B	
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	7471B	
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	7471B	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	7471B	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	7471B	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	7471B	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	7471B	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	7471B	
MB 500-365341/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-365341/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121303-1 MS	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	
500-121303-1 MSD	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	
500-121303-1 DU	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 365414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	6010B	365252
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	6010B	365252
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	6010B	365252
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	6010B	365252
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	6010B	365252
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	6010B	365252
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	6010B	365252
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	6010B	365252
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	6010B	365252
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	6010B	365252
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	6010B	365252
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	6010B	365252
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	6010B	365252
MB 500-365252/1-A	Method Blank	Total/NA	Solid	6010B	365252
LCS 500-365252/2-A	Lab Control Sample	Total/NA	Solid	6010B	365252
500-121303-1 MS	1314V3-05-B02 (0-6)	Total/NA	Solid	6010B	365252
500-121303-1 MSD	1314V3-05-B02 (0-6)	Total/NA	Solid	6010B	365252
500-121303-1 DU	1314V3-05-B02 (0-6)	Total/NA	Solid	6010B	365252

Analysis Batch: 365486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365289
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	7470A	365289
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	7470A	365289
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	7470A	365289
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	7470A	365289
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	7470A	365289
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	7470A	365289
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	7470A	365289
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	7470A	365289

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Analysis Batch: 365486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	7470A	365289
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	7470A	365289
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	7470A	365289
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	7470A	365289
LB 500-365093/1-B	Method Blank	TCLP	Solid	7470A	365289
MB 500-365289/35-A	Method Blank	Total/NA	Solid	7470A	365289
LCS 500-365289/36-A	Lab Control Sample	Total/NA	Solid	7470A	365289
500-121303-1 MS	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365289
500-121303-1 DU	1314V3-05-B02 (0-6)	TCLP	Solid	7470A	365289

Analysis Batch: 365514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	365341
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	7471B	365341
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	7471B	365341
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	7471B	365341
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	7471B	365341
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	7471B	365341
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	7471B	365341
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	7471B	365341
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	7471B	365341
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	7471B	365341
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	7471B	365341
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	7471B	365341
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	7471B	365341
MB 500-365341/12-A	Method Blank	Total/NA	Solid	7471B	365341
LCS 500-365341/13-A	Lab Control Sample	Total/NA	Solid	7471B	365341
500-121303-1 MS	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	365341
500-121303-1 MSD	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	365341
500-121303-1 DU	1314V3-05-B02 (0-6)	Total/NA	Solid	7471B	365341

Analysis Batch: 365688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	6010B	365252

Analysis Batch: 365695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	6020A	365312
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	6020A	365312
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	6020A	365312
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	6020A	365312
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	6020A	365312
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	6020A	365312
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	6020A	365312
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	6020A	365312
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	6020A	365312
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	6020A	365312
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	6020A	365312
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	6020A	365312
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	6020A	365312
LB 500-365093/1-C	Method Blank	TCLP	Solid	6020A	365312

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Analysis Batch: 365695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-365312/2-A	Lab Control Sample	Total/NA	Solid	6020A	365312
500-121303-13 MS	1314V3-24-B08 (0-8)	TCLP	Solid	6020A	365312
500-121303-13 DU	1314V3-24-B08 (0-8)	TCLP	Solid	6020A	365312

Analysis Batch: 365880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	SPLP East	Solid	6010B	365308
500-121303-2	1314V3-05-B02 (6-10.6)	SPLP East	Solid	6010B	365308
500-121303-3	1314V3-05-B03 (0-5.9)	SPLP East	Solid	6010B	365308
500-121303-4	1314V3-05-B01 (0-5)	SPLP East	Solid	6010B	365308
500-121303-5	1314V3-17-B01 (0-7)	SPLP East	Solid	6010B	365308
500-121303-6	1314V3-17-B02 (0-7)	SPLP East	Solid	6010B	365308
500-121303-7	1314V3-17-B03 (0-7)	SPLP East	Solid	6010B	365308
500-121303-8	1314V3-17-B03 (0-7)D	SPLP East	Solid	6010B	365308
500-121303-9	1314V3-24-B06 (0-4)	SPLP East	Solid	6010B	365308
500-121303-10	1314V3-24-B05 (0-5)	SPLP East	Solid	6010B	365308
500-121303-12	1314V3-24-B07 (0-5)	SPLP East	Solid	6010B	365308
LB 500-365087/1-B	Method Blank	SPLP East	Solid	6010B	365308
LCS 500-365308/2-A	Lab Control Sample	Total/NA	Solid	6010B	365308
500-121303-8 MS	1314V3-17-B03 (0-7)D	SPLP East	Solid	6010B	365308
500-121303-8 DU	1314V3-17-B03 (0-7)D	SPLP East	Solid	6010B	365308

Analysis Batch: 365952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-10	1314V3-24-B05 (0-5)	SPLP East	Solid	6020A	365308
LB 500-365087/1-B	Method Blank	SPLP East	Solid	6020A	365308
LCS 500-365308/2-A	Lab Control Sample	Total/NA	Solid	6020A	365308

Analysis Batch: 366071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	TCLP	Solid	6010B	365312
500-121303-2	1314V3-05-B02 (6-10.6)	TCLP	Solid	6010B	365312
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	6010B	365312
500-121303-4	1314V3-05-B01 (0-5)	TCLP	Solid	6010B	365312
500-121303-5	1314V3-17-B01 (0-7)	TCLP	Solid	6010B	365312
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	6010B	365312
500-121303-7	1314V3-17-B03 (0-7)	TCLP	Solid	6010B	365312
500-121303-8	1314V3-17-B03 (0-7)D	TCLP	Solid	6010B	365312
500-121303-9	1314V3-24-B06 (0-4)	TCLP	Solid	6010B	365312
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	6010B	365312
500-121303-11	1314V3-24-B05 (5-10)	TCLP	Solid	6010B	365312
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	6010B	365312
500-121303-13	1314V3-24-B08 (0-8)	TCLP	Solid	6010B	365312
LB 500-365093/1-C	Method Blank	TCLP	Solid	6010B	365312
LCS 500-365312/2-A	Lab Control Sample	Total/NA	Solid	6010B	365312
500-121303-13 MS	1314V3-24-B08 (0-8)	TCLP	Solid	6010B	365312
500-121303-13 DU	1314V3-24-B08 (0-8)	TCLP	Solid	6010B	365312

Leach Batch: 366175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Metals (Continued)

Leach Batch: 366175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	1311	
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	1311	
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	1311	
LB 500-366175/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 366367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	3010A	366175
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	3010A	366175
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	3010A	366175
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	3010A	366175
LB 500-366175/1-C	Method Blank	TCLP	Solid	3010A	366175
LCS 500-366367/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 366563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-3	1314V3-05-B03 (0-5.9)	TCLP	Solid	6010B	366367
500-121303-6	1314V3-17-B02 (0-7)	TCLP	Solid	6010B	366367
500-121303-10	1314V3-24-B05 (0-5)	TCLP	Solid	6010B	366367
500-121303-12	1314V3-24-B07 (0-5)	TCLP	Solid	6010B	366367
LB 500-366175/1-C	Method Blank	TCLP	Solid	6010B	366367
LCS 500-366367/2-A	Lab Control Sample	Total/NA	Solid	6010B	366367

General Chemistry

Analysis Batch: 364708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	Moisture	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	Moisture	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	Moisture	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	Moisture	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	Moisture	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	Moisture	
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	Moisture	
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	Moisture	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	Moisture	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	Moisture	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	Moisture	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	Moisture	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	Moisture	
500-121303-1 DU	1314V3-05-B02 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 365560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-1	1314V3-05-B02 (0-6)	Total/NA	Solid	9045D	
500-121303-2	1314V3-05-B02 (6-10.6)	Total/NA	Solid	9045D	
500-121303-3	1314V3-05-B03 (0-5.9)	Total/NA	Solid	9045D	
500-121303-4	1314V3-05-B01 (0-5)	Total/NA	Solid	9045D	
500-121303-5	1314V3-17-B01 (0-7)	Total/NA	Solid	9045D	
500-121303-6	1314V3-17-B02 (0-7)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

General Chemistry (Continued)

Analysis Batch: 365560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121303-7	1314V3-17-B03 (0-7)	Total/NA	Solid	9045D	
500-121303-8	1314V3-17-B03 (0-7)D	Total/NA	Solid	9045D	
500-121303-9	1314V3-24-B06 (0-4)	Total/NA	Solid	9045D	
500-121303-10	1314V3-24-B05 (0-5)	Total/NA	Solid	9045D	
500-121303-11	1314V3-24-B05 (5-10)	Total/NA	Solid	9045D	
500-121303-12	1314V3-24-B07 (0-5)	Total/NA	Solid	9045D	
500-121303-13	1314V3-24-B08 (0-8)	Total/NA	Solid	9045D	
500-121303-13 DU	1314V3-24-B08 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121303-1	1314V3-05-B02 (0-6)	103	119	125	108
500-121303-2	1314V3-05-B02 (6-10.6)	105	120	132	107
500-121303-3	1314V3-05-B03 (0-5.9)	100	119	129	108
500-121303-4	1314V3-05-B01 (0-5)	102	119	127	109
500-121303-5	1314V3-17-B01 (0-7)	101	121 X	130	112
500-121303-6	1314V3-17-B02 (0-7)	105	121 X	131	109
500-121303-7	1314V3-17-B03 (0-7)	106	120	123	109
500-121303-8	1314V3-17-B03 (0-7)D	104	119	128	108
500-121303-9	1314V3-24-B06 (0-4)	100	117	124	110
500-121303-10	1314V3-24-B05 (0-5)	99	124 X	138 X	108
500-121303-11	1314V3-24-B05 (5-10)	105	118	132	107
500-121303-12	1314V3-24-B07 (0-5)	86	125 X	129	119
500-121303-13	1314V3-24-B08 (0-8)	99	118	122	111
LCS 500-364654/4	Lab Control Sample	113	116	116	113
LCS 500-364850/4	Lab Control Sample	110	115	117	110
LCSD 500-364654/5	Lab Control Sample Dup	108	116	120	112
LCSD 500-364850/5	Lab Control Sample Dup	112	117	115	110
MB 500-364654/7	Method Blank	104	117	125	107
MB 500-364850/7	Method Blank	102	118	123	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121303-1	1314V3-05-B02 (0-6)	98	87	90	91	83	102
500-121303-2	1314V3-05-B02 (6-10.6)	97	71	88	89	89	107
500-121303-2 MS	1314V3-05-B02 (6-10.6)	84	82	76	76	85	86
500-121303-2 MSD	1314V3-05-B02 (6-10.6)	86	75	78	78	88	89
500-121303-3	1314V3-05-B03 (0-5.9)	86	81	82	81	92	100
500-121303-4	1314V3-05-B01 (0-5)	96	83	87	88	82	104
500-121303-5	1314V3-17-B01 (0-7)	92	77	80	79	79	95
500-121303-6	1314V3-17-B02 (0-7)	81	75	74	74	98	91
500-121303-7	1314V3-17-B03 (0-7)	88	74	77	74	81	95
500-121303-8	1314V3-17-B03 (0-7)D	81	72	73	71	72	94
500-121303-9	1314V3-24-B06 (0-4)	88	73	78	78	77	102
500-121303-10	1314V3-24-B05 (0-5)	94	90	87	84	100	104
500-121303-11	1314V3-24-B05 (5-10)	82	64	72	74	75	98
500-121303-12	1314V3-24-B07 (0-5)	89	74	84	82	89	99
500-121303-13	1314V3-24-B08 (0-8)	89	71	77	76	81	99
LCS 500-366006/2-A	Lab Control Sample	84	81	72	77	87	90
MB 500-366006/1-A	Method Blank	80	77	72	78	53	97

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364654/7

Matrix: Solid

Analysis Batch: 364654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/12/16 16:18	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/12/16 16:18	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/12/16 16:18	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/12/16 16:18	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/12/16 16:18	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/12/16 16:18	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/12/16 16:18	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/12/16 16:18	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/12/16 16:18	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/12/16 16:18	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 16:18	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/12/16 16:18	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/12/16 16:18	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/12/16 16:18	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/12/16 16:18	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 16:18	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/12/16 16:18	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/12/16 16:18	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/12/16 16:18	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/12/16 16:18	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/12/16 16:18	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/12/16 16:18	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/12/16 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/12/16 16:18	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/12/16 16:18	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/12/16 16:18	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/12/16 16:18	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/12/16 16:18	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/12/16 16:18	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/12/16 16:18	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/12/16 16:18	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/12/16 16:18	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/12/16 16:18	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/12/16 16:18	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/12/16 16:18	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/12/16 16:18	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/12/16 16:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120		12/12/16 16:18	1
Dibromofluoromethane	117		75 - 120		12/12/16 16:18	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134		12/12/16 16:18	1
Toluene-d8 (Surr)	107		75 - 123		12/12/16 16:18	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364654/4

Matrix: Solid

Analysis Batch: 364654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0585		mg/Kg		117	40 - 148
Benzene	0.0500	0.0497		mg/Kg		99	70 - 120
Bromodichloromethane	0.0500	0.0510		mg/Kg		102	67 - 120
Bromoform	0.0500	0.0527		mg/Kg		105	50 - 129
Bromomethane	0.0500	0.0575		mg/Kg		115	50 - 134
2-Butanone (MEK)	0.0500	0.0540		mg/Kg		108	47 - 138
Carbon disulfide	0.0500	0.0534		mg/Kg		107	67 - 133
Carbon tetrachloride	0.0500	0.0558		mg/Kg		112	65 - 123
Chlorobenzene	0.0500	0.0495		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0548		mg/Kg		110	40 - 150
Chloroform	0.0500	0.0536		mg/Kg		107	70 - 120
Chloromethane	0.0500	0.0587		mg/Kg		117	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 120
Dibromochloromethane	0.0500	0.0531		mg/Kg		106	68 - 120
1,1-Dichloroethane	0.0500	0.0513		mg/Kg		103	70 - 125
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	65 - 126
1,1-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 122
1,2-Dichloropropane	0.0500	0.0487		mg/Kg		97	70 - 126
Ethylbenzene	0.0500	0.0490		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0526		mg/Kg		105	51 - 139
Methylene Chloride	0.0500	0.0525		mg/Kg		105	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0518		mg/Kg		104	51 - 141
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	70 - 121
Styrene	0.0500	0.0499		mg/Kg		100	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0441		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0528		mg/Kg		106	70 - 122
Toluene	0.0500	0.0495		mg/Kg		99	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0525		mg/Kg		105	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 121
1,1,1-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 120
1,1,2-Trichloroethane	0.0500	0.0469		mg/Kg		94	70 - 120
Trichloroethene	0.0500	0.0522		mg/Kg		104	70 - 124
Vinyl acetate	0.0500	0.0357		mg/Kg		71	40 - 150
Vinyl chloride	0.0500	0.0561		mg/Kg		112	64 - 125
Xylenes, Total	0.100	0.0990		mg/Kg		99	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 120
Dibromofluoromethane	116		75 - 120
1,2-Dichloroethane-d4 (Surr)	116		69 - 134
Toluene-d8 (Surr)	113		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364654/5

Matrix: Solid

Analysis Batch: 364654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0572		mg/Kg		114	40 - 148	2	30
Benzene	0.0500	0.0443		mg/Kg		89	70 - 120	11	30
Bromodichloromethane	0.0500	0.0450		mg/Kg		90	67 - 120	12	30
Bromoform	0.0500	0.0467		mg/Kg		93	50 - 129	12	30
Bromomethane	0.0500	0.0661		mg/Kg		132	50 - 134	14	30
2-Butanone (MEK)	0.0500	0.0508		mg/Kg		102	47 - 138	6	30
Carbon disulfide	0.0500	0.0473		mg/Kg		95	67 - 133	12	30
Carbon tetrachloride	0.0500	0.0495		mg/Kg		99	65 - 123	12	30
Chlorobenzene	0.0500	0.0428		mg/Kg		86	70 - 120	15	30
Chloroethane	0.0500	0.0585		mg/Kg		117	40 - 150	7	30
Chloroform	0.0500	0.0466		mg/Kg		93	70 - 120	14	30
Chloromethane	0.0500	0.0569		mg/Kg		114	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120	13	30
cis-1,3-Dichloropropene	0.0500	0.0440		mg/Kg		88	70 - 120	12	30
Dibromochloromethane	0.0500	0.0457		mg/Kg		91	68 - 120	15	30
1,1-Dichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125	10	30
1,2-Dichloroethane	0.0500	0.0508		mg/Kg		102	65 - 126	9	30
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 122	14	30
1,2-Dichloropropane	0.0500	0.0443		mg/Kg		89	70 - 126	9	30
Ethylbenzene	0.0500	0.0432		mg/Kg		86	70 - 120	13	30
2-Hexanone	0.0500	0.0502		mg/Kg		100	51 - 139	5	30
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 121	12	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0513		mg/Kg		103	51 - 141	1	30
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	70 - 121	9	30
Styrene	0.0500	0.0430		mg/Kg		86	70 - 121	15	30
1,1,1,2-Tetrachloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	5	30
Tetrachloroethene	0.0500	0.0449		mg/Kg		90	70 - 122	16	30
Toluene	0.0500	0.0419		mg/Kg		84	70 - 121	17	30
trans-1,2-Dichloroethene	0.0500	0.0469		mg/Kg		94	70 - 120	11	30
trans-1,3-Dichloropropene	0.0500	0.0464		mg/Kg		93	70 - 121	10	30
1,1,1-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 120	11	30
1,1,2-Trichloroethane	0.0500	0.0424		mg/Kg		85	70 - 120	10	30
Trichloroethene	0.0500	0.0448		mg/Kg		90	70 - 124	15	30
Vinyl acetate	0.0500	0.0320		mg/Kg		64	40 - 150	11	30
Vinyl chloride	0.0500	0.0544		mg/Kg		109	64 - 125	3	30
Xylenes, Total	0.100	0.0849		mg/Kg		85	70 - 123	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	108		70 - 120
Dibromofluoromethane	116		75 - 120
1,2-Dichloroethane-d4 (Surr)	120		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-364850/7

Matrix: Solid

Analysis Batch: 364850

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/13/16 14:00	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/13/16 14:00	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/13/16 14:00	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/13/16 14:00	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/13/16 14:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/13/16 14:00	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/13/16 14:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/13/16 14:00	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/13/16 14:00	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/13/16 14:00	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 14:00	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/13/16 14:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/13/16 14:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/13/16 14:00	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/13/16 14:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 14:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/13/16 14:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/13/16 14:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/13/16 14:00	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/13/16 14:00	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/13/16 14:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/13/16 14:00	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/13/16 14:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/13/16 14:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/13/16 14:00	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/13/16 14:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/13/16 14:00	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/13/16 14:00	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/13/16 14:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/13/16 14:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/13/16 14:00	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/13/16 14:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/13/16 14:00	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/13/16 14:00	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/13/16 14:00	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/13/16 14:00	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/13/16 14:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120		12/13/16 14:00	1
Dibromofluoromethane	118		75 - 120		12/13/16 14:00	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134		12/13/16 14:00	1
Toluene-d8 (Surr)	105		75 - 123		12/13/16 14:00	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-364850/4

Matrix: Solid

Analysis Batch: 364850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0518		mg/Kg		104	40 - 148
Benzene	0.0500	0.0489		mg/Kg		98	70 - 120
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 120
Bromoform	0.0500	0.0497		mg/Kg		99	50 - 129
Bromomethane	0.0500	0.0524		mg/Kg		105	50 - 134
2-Butanone (MEK)	0.0500	0.0484		mg/Kg		97	47 - 138
Carbon disulfide	0.0500	0.0517		mg/Kg		103	67 - 133
Carbon tetrachloride	0.0500	0.0565		mg/Kg		113	65 - 123
Chlorobenzene	0.0500	0.0481		mg/Kg		96	70 - 120
Chloroethane	0.0500	0.0491		mg/Kg		98	40 - 150
Chloroform	0.0500	0.0510		mg/Kg		102	70 - 120
Chloromethane	0.0500	0.0568		mg/Kg		114	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0471		mg/Kg		94	70 - 120
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	68 - 120
1,1-Dichloroethane	0.0500	0.0506		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0523		mg/Kg		105	65 - 126
1,1-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 122
1,2-Dichloropropane	0.0500	0.0480		mg/Kg		96	70 - 126
Ethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 120
2-Hexanone	0.0500	0.0458		mg/Kg		92	51 - 139
Methylene Chloride	0.0500	0.0466		mg/Kg		93	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	51 - 141
Methyl tert-butyl ether	0.0500	0.0477		mg/Kg		95	70 - 121
Styrene	0.0500	0.0485		mg/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0402		mg/Kg		80	70 - 125
Tetrachloroethene	0.0500	0.0503		mg/Kg		101	70 - 122
Toluene	0.0500	0.0464		mg/Kg		93	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0473		mg/Kg		95	70 - 121
1,1,1-Trichloroethane	0.0500	0.0537		mg/Kg		107	70 - 120
1,1,2-Trichloroethane	0.0500	0.0455		mg/Kg		91	70 - 120
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 124
Vinyl acetate	0.0500	0.0486		mg/Kg		97	40 - 150
Vinyl chloride	0.0500	0.0554		mg/Kg		111	64 - 125
Xylenes, Total	0.100	0.0963		mg/Kg		96	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 120
Dibromofluoromethane	115		75 - 120
1,2-Dichloroethane-d4 (Surr)	117		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-364850/5
Matrix: Solid
Analysis Batch: 364850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0496		mg/Kg		99	40 - 148	4	30
Benzene	0.0500	0.0418		mg/Kg		84	70 - 120	16	30
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 120	13	30
Bromoform	0.0500	0.0436		mg/Kg		87	50 - 129	13	30
Bromomethane	0.0500	0.0552		mg/Kg		110	50 - 134	5	30
2-Butanone (MEK)	0.0500	0.0476		mg/Kg		95	47 - 138	2	30
Carbon disulfide	0.0500	0.0434		mg/Kg		87	67 - 133	17	30
Carbon tetrachloride	0.0500	0.0487		mg/Kg		97	65 - 123	15	30
Chlorobenzene	0.0500	0.0409		mg/Kg		82	70 - 120	16	30
Chloroethane	0.0500	0.0488		mg/Kg		98	40 - 150	1	30
Chloroform	0.0500	0.0438		mg/Kg		88	70 - 120	15	30
Chloromethane	0.0500	0.0518		mg/Kg		104	63 - 135	9	30
cis-1,2-Dichloroethene	0.0500	0.0423		mg/Kg		85	70 - 120	17	30
cis-1,3-Dichloropropene	0.0500	0.0417		mg/Kg		83	70 - 120	12	30
Dibromochloromethane	0.0500	0.0433		mg/Kg		87	68 - 120	13	30
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125	15	30
1,2-Dichloroethane	0.0500	0.0462		mg/Kg		92	65 - 126	12	30
1,1-Dichloroethene	0.0500	0.0421		mg/Kg		84	70 - 122	23	30
1,2-Dichloropropane	0.0500	0.0419		mg/Kg		84	70 - 126	14	30
Ethylbenzene	0.0500	0.0414		mg/Kg		83	70 - 120	14	30
2-Hexanone	0.0500	0.0456		mg/Kg		91	51 - 139	0	30
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 121	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0459		mg/Kg		92	51 - 141	3	30
Methyl tert-butyl ether	0.0500	0.0424		mg/Kg		85	70 - 121	12	30
Styrene	0.0500	0.0412		mg/Kg		82	70 - 121	16	30
1,1,1,2-Tetrachloroethane	0.0500	0.0378		mg/Kg		76	70 - 125	6	30
Tetrachloroethene	0.0500	0.0426		mg/Kg		85	70 - 122	17	30
Toluene	0.0500	0.0393		mg/Kg		79	70 - 121	17	30
trans-1,2-Dichloroethene	0.0500	0.0444		mg/Kg		89	70 - 120	14	30
trans-1,3-Dichloropropene	0.0500	0.0417		mg/Kg		83	70 - 121	13	30
1,1,1-Trichloroethane	0.0500	0.0447		mg/Kg		89	70 - 120	18	30
1,1,2-Trichloroethane	0.0500	0.0389		mg/Kg		78	70 - 120	16	30
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 124	14	30
Vinyl acetate	0.0500	0.0462		mg/Kg		92	40 - 150	5	30
Vinyl chloride	0.0500	0.0521		mg/Kg		104	64 - 125	6	30
Xylenes, Total	0.100	0.0825		mg/Kg		83	70 - 123	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 120
Dibromofluoromethane	117		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366006/1-A
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/20/16 16:13	12/21/16 11:11	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366006/1-A
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/20/16 16:13	12/21/16 11:11	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/20/16 16:13	12/21/16 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		40 - 130	12/20/16 16:13	12/21/16 11:11	1
Phenol-d5	77		36 - 123	12/20/16 16:13	12/21/16 11:11	1
Nitrobenzene-d5	72		33 - 124	12/20/16 16:13	12/21/16 11:11	1
2-Fluorobiphenyl	78		42 - 115	12/20/16 16:13	12/21/16 11:11	1
2,4,6-Tribromophenol	53		25 - 130	12/20/16 16:13	12/21/16 11:11	1
Terphenyl-d14	97		25 - 150	12/20/16 16:13	12/21/16 11:11	1

Lab Sample ID: LCS 500-366006/2-A
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.23		mg/Kg		93	55 - 118
Bis(2-chloroethyl)ether	1.33	1.04		mg/Kg		78	53 - 116
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	56 - 110
1,4-Dichlorobenzene	1.33	1.09		mg/Kg		81	57 - 110
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		82	56 - 110
2-Methylphenol	1.33	1.17		mg/Kg		88	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.17		mg/Kg		88	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		87	56 - 119
Hexachloroethane	1.33	1.10		mg/Kg		83	54 - 111
2-Chlorophenol	1.33	1.17		mg/Kg		87	57 - 117
Nitrobenzene	1.33	1.15		mg/Kg		86	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.12		mg/Kg		84	59 - 116
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	60 - 116
Isophorone	1.33	1.07		mg/Kg		80	54 - 120
2,4-Dimethylphenol	1.33	1.12		mg/Kg		84	50 - 120
Hexachlorobutadiene	1.33	1.17		mg/Kg		88	56 - 120
Naphthalene	1.33	1.14		mg/Kg		86	58 - 116
2,4-Dichlorophenol	1.33	1.11		mg/Kg		83	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366006/2-A
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.17		mg/Kg		88	10 - 150
2,4,6-Trichlorophenol	1.33	1.05		mg/Kg		79	50 - 120
2,4,5-Trichlorophenol	1.33	0.934		mg/Kg		70	42 - 119
Hexachlorocyclopentadiene	1.33	0.346	J	mg/Kg		26	10 - 116
2-Methylnaphthalene	1.33	1.13		mg/Kg		85	55 - 120
2-Nitroaniline	1.33	1.13		mg/Kg		85	52 - 121
2-Chloronaphthalene	1.33	1.16		mg/Kg		87	57 - 112
4-Chloro-3-methylphenol	1.33	1.09		mg/Kg		82	59 - 117
2,6-Dinitrotoluene	1.33	1.12		mg/Kg		84	57 - 118
2-Nitrophenol	1.33	1.13		mg/Kg		85	58 - 121
3-Nitroaniline	1.33	1.15		mg/Kg		86	20 - 144
Dimethyl phthalate	1.33	1.12		mg/Kg		84	60 - 112
2,4-Dinitrophenol	2.67	<0.67	*	mg/Kg		4	10 - 110
Acenaphthylene	1.33	1.08		mg/Kg		81	57 - 116
2,4-Dinitrotoluene	1.33	1.16		mg/Kg		87	59 - 119
Acenaphthene	1.33	1.12		mg/Kg		84	52 - 113
Dibenzofuran	1.33	1.17		mg/Kg		88	59 - 110
4-Nitrophenol	2.67	1.50		mg/Kg		56	32 - 123
Fluorene	1.33	1.14		mg/Kg		86	56 - 115
4-Nitroaniline	1.33	1.51		mg/Kg		113	55 - 146
4-Bromophenyl phenyl ether	1.33	1.14		mg/Kg		86	61 - 124
Hexachlorobenzene	1.33	1.18		mg/Kg		88	62 - 126
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.15		mg/Kg		87	61 - 111
Pentachlorophenol	2.67	1.64		mg/Kg		61	12 - 116
N-Nitrosodiphenylamine	1.33	1.18		mg/Kg		88	62 - 117
4,6-Dinitro-2-methylphenol	2.67	0.592	J	mg/Kg		22	10 - 110
Phenanthrene	1.33	1.15		mg/Kg		86	58 - 125
Anthracene	1.33	1.16		mg/Kg		87	57 - 118
Carbazole	1.33	1.38		mg/Kg		103	65 - 137
Di-n-butyl phthalate	1.33	1.17		mg/Kg		88	61 - 123
Fluoranthene	1.33	1.13		mg/Kg		85	61 - 124
Pyrene	1.33	1.11		mg/Kg		83	60 - 115
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	61 - 115
Benzo[a]anthracene	1.33	1.09		mg/Kg		82	63 - 115
Chrysene	1.33	1.10		mg/Kg		82	63 - 118
3,3'-Dichlorobenzidine	1.33	0.975		mg/Kg		73	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.23		mg/Kg		93	62 - 117
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	58 - 129
Benzo[b]fluoranthene	1.33	1.14		mg/Kg		86	61 - 123
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		93	59 - 125
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.17		mg/Kg		88	50 - 149
Dibenz(a,h)anthracene	1.33	1.21		mg/Kg		90	61 - 134
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	55 - 134
3 & 4 Methylphenol	1.33	1.10		mg/Kg		83	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366006/2-A
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366006

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	84		40 - 130
Phenol-d5	81		36 - 123
Nitrobenzene-d5	72		33 - 124
2-Fluorobiphenyl	77		42 - 115
2,4,6-Tribromophenol	87		25 - 130
Terphenyl-d14	90		25 - 150

Lab Sample ID: 500-121303-2 MS
Matrix: Solid
Analysis Batch: 366067

Client Sample ID: 1314V3-05-B02 (6-10.6)
Prep Type: Total/NA
Prep Batch: 366006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.20		1.66	1.28		mg/Kg	☼	77	55 - 118
Bis(2-chloroethyl)ether	<0.20		1.66	1.36		mg/Kg	☼	82	53 - 116
1,3-Dichlorobenzene	<0.20		1.66	1.19		mg/Kg	☼	72	56 - 110
1,4-Dichlorobenzene	<0.20		1.66	1.23		mg/Kg	☼	74	57 - 110
1,2-Dichlorobenzene	<0.20		1.66	1.23		mg/Kg	☼	74	56 - 110
2-Methylphenol	<0.20		1.66	1.24		mg/Kg	☼	75	53 - 123
2,2'-oxybis[1-chloropropane]	<0.20		1.66	1.33		mg/Kg	☼	80	22 - 133
N-Nitrosodi-n-propylamine	<0.081		1.66	1.33		mg/Kg	☼	80	56 - 119
Hexachloroethane	<0.20		1.66	1.16		mg/Kg	☼	70	54 - 111
2-Chlorophenol	<0.20		1.66	1.35		mg/Kg	☼	81	57 - 117
Nitrobenzene	<0.040		1.66	1.26		mg/Kg	☼	76	56 - 121
Bis(2-chloroethoxy)methane	<0.20		1.66	1.27		mg/Kg	☼	76	59 - 116
1,2,4-Trichlorobenzene	<0.20		1.66	1.30		mg/Kg	☼	79	60 - 116
Isophorone	<0.20		1.66	1.19		mg/Kg	☼	72	54 - 120
2,4-Dimethylphenol	<0.40		1.66	1.24		mg/Kg	☼	75	50 - 120
Hexachlorobutadiene	<0.20		1.66	1.33		mg/Kg	☼	80	56 - 120
Naphthalene	<0.040		1.66	1.29		mg/Kg	☼	78	58 - 116
2,4-Dichlorophenol	<0.40		1.66	1.26		mg/Kg	☼	76	61 - 116
4-Chloroaniline	<0.81		1.66	0.931		mg/Kg	☼	56	10 - 150
2,4,6-Trichlorophenol	<0.40		1.66	1.30		mg/Kg	☼	78	50 - 120
2,4,5-Trichlorophenol	<0.40		1.66	1.03		mg/Kg	☼	62	42 - 119
Hexachlorocyclopentadiene	<0.81	F1	1.66	<0.83	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	<0.081		1.66	1.30		mg/Kg	☼	79	55 - 120
2-Nitroaniline	<0.20		1.66	1.29		mg/Kg	☼	78	52 - 121
2-Chloronaphthalene	<0.20		1.66	1.29		mg/Kg	☼	78	57 - 112
4-Chloro-3-methylphenol	<0.40		1.66	1.20		mg/Kg	☼	72	59 - 117
2,6-Dinitrotoluene	<0.20		1.66	1.31		mg/Kg	☼	79	57 - 118
2-Nitrophenol	<0.40		1.66	1.29		mg/Kg	☼	78	58 - 121
3-Nitroaniline	<0.40		1.66	1.42		mg/Kg	☼	85	20 - 144
Dimethyl phthalate	<0.20		1.66	1.29		mg/Kg	☼	78	60 - 112
2,4-Dinitrophenol	<0.81	F1 *	3.32	<0.83	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.040		1.66	1.22		mg/Kg	☼	74	57 - 116
2,4-Dinitrotoluene	<0.20		1.66	1.33		mg/Kg	☼	80	59 - 119
Acenaphthene	<0.040		1.66	1.31		mg/Kg	☼	79	52 - 113
Dibenzofuran	<0.20		1.66	1.34		mg/Kg	☼	81	59 - 110
4-Nitrophenol	<0.81	F2	3.32	2.99		mg/Kg	☼	90	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121303-2 MS

Matrix: Solid

Analysis Batch: 366067

Client Sample ID: 1314V3-05-B02 (6-10.6)

Prep Type: Total/NA

Prep Batch: 366006

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	<0.040		1.66	1.32		mg/Kg	☼	80		56 - 115
4-Nitroaniline	<0.40		1.66	1.69		mg/Kg	☼	102		55 - 146
4-Bromophenyl phenyl ether	<0.20		1.66	1.30		mg/Kg	☼	78		61 - 124
Hexachlorobenzene	<0.081		1.66	1.33		mg/Kg	☼	80		62 - 126
Diethyl phthalate	<0.20		1.66	1.38		mg/Kg	☼	83		58 - 117
4-Chlorophenyl phenyl ether	<0.20		1.66	1.33		mg/Kg	☼	80		61 - 111
Pentachlorophenol	<0.81		3.32	2.53		mg/Kg	☼	76		12 - 116
N-Nitrosodiphenylamine	<0.20		1.66	1.31		mg/Kg	☼	79		62 - 117
4,6-Dinitro-2-methylphenol	<0.81		3.32	1.23		mg/Kg	☼	37		10 - 110
Phenanthrene	<0.040		1.66	1.34		mg/Kg	☼	81		58 - 125
Anthracene	<0.040		1.66	1.36		mg/Kg	☼	82		57 - 118
Carbazole	<0.20		1.66	1.61		mg/Kg	☼	97		65 - 137
Di-n-butyl phthalate	<0.20		1.66	1.33		mg/Kg	☼	80		61 - 123
Fluoranthene	<0.040		1.66	1.38		mg/Kg	☼	83		61 - 124
Pyrene	<0.040		1.66	1.33		mg/Kg	☼	80		60 - 115
Butyl benzyl phthalate	<0.20		1.66	1.28		mg/Kg	☼	77		61 - 115
Benzo[a]anthracene	<0.040		1.66	1.28		mg/Kg	☼	77		63 - 115
Chrysene	<0.040		1.66	1.25		mg/Kg	☼	75		63 - 118
3,3'-Dichlorobenzidine	<0.20		1.66	1.02		mg/Kg	☼	61		40 - 110
Bis(2-ethylhexyl) phthalate	<0.20		1.66	1.40		mg/Kg	☼	84		62 - 117
Di-n-octyl phthalate	<0.20		1.66	1.33		mg/Kg	☼	80		58 - 129
Benzo[b]fluoranthene	<0.040		1.66	1.53		mg/Kg	☼	93		61 - 123
Benzo[k]fluoranthene	<0.040		1.66	1.62		mg/Kg	☼	97		59 - 125
Benzo[a]pyrene	<0.040		1.66	1.35		mg/Kg	☼	81		64 - 122
Indeno[1,2,3-cd]pyrene	<0.040	F1	1.66	0.723	F1	mg/Kg	☼	44		50 - 149
Dibenz(a,h)anthracene	<0.040	F1	1.66	0.782	F1	mg/Kg	☼	47		61 - 134
Benzo[g,h,i]perylene	<0.040	F1	1.66	0.603	F1	mg/Kg	☼	36		55 - 134
3 & 4 Methylphenol	<0.20		1.66	1.39		mg/Kg	☼	84		55 - 124

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	84		40 - 130
Phenol-d5	82		36 - 123
Nitrobenzene-d5	76		33 - 124
2-Fluorobiphenyl	76		42 - 115
2,4,6-Tribromophenol	85		25 - 130
Terphenyl-d14	86		25 - 150

Lab Sample ID: 500-121303-2 MSD

Matrix: Solid

Analysis Batch: 366067

Client Sample ID: 1314V3-05-B02 (6-10.6)

Prep Type: Total/NA

Prep Batch: 366006

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.20		1.66	1.24		mg/Kg	☼	75		55 - 118	3	30
Bis(2-chloroethyl)ether	<0.20		1.66	1.68		mg/Kg	☼	101		53 - 116	21	30
1,3-Dichlorobenzene	<0.20		1.66	1.21		mg/Kg	☼	73		56 - 110	2	30
1,4-Dichlorobenzene	<0.20		1.66	1.25		mg/Kg	☼	75		57 - 110	1	30
1,2-Dichlorobenzene	<0.20		1.66	1.24		mg/Kg	☼	75		56 - 110	1	30
2-Methylphenol	<0.20		1.66	1.21		mg/Kg	☼	73		53 - 123	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121303-2 MSD

Matrix: Solid

Analysis Batch: 366067

Client Sample ID: 1314V3-05-B02 (6-10.6)

Prep Type: Total/NA

Prep Batch: 366006

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.20		1.66	1.33		mg/Kg	☼	80	22 - 133	0	30
N-Nitrosodi-n-propylamine	<0.081		1.66	1.32		mg/Kg	☼	80	56 - 119	0	30
Hexachloroethane	<0.20		1.66	1.18		mg/Kg	☼	71	54 - 111	2	30
2-Chlorophenol	<0.20		1.66	1.35		mg/Kg	☼	81	57 - 117	0	30
Nitrobenzene	<0.040		1.66	1.30		mg/Kg	☼	78	56 - 121	3	30
Bis(2-chloroethoxy)methane	<0.20		1.66	1.29		mg/Kg	☼	77	59 - 116	2	30
1,2,4-Trichlorobenzene	<0.20		1.66	1.31		mg/Kg	☼	79	60 - 116	1	30
Isophorone	<0.20		1.66	1.21		mg/Kg	☼	72	54 - 120	1	30
2,4-Dimethylphenol	<0.40		1.66	1.28		mg/Kg	☼	77	50 - 120	3	30
Hexachlorobutadiene	<0.20		1.66	1.35		mg/Kg	☼	81	56 - 120	2	30
Naphthalene	<0.040		1.66	1.31		mg/Kg	☼	79	58 - 116	2	30
2,4-Dichlorophenol	<0.40		1.66	1.30		mg/Kg	☼	78	61 - 116	3	30
4-Chloroaniline	<0.81		1.66	1.00		mg/Kg	☼	60	10 - 150	7	30
2,4,6-Trichlorophenol	<0.40		1.66	1.29		mg/Kg	☼	78	50 - 120	0	30
2,4,5-Trichlorophenol	<0.40		1.66	1.28		mg/Kg	☼	77	42 - 119	22	30
Hexachlorocyclopentadiene	<0.81	F1	1.66	<0.84	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	<0.081		1.66	1.34		mg/Kg	☼	80	55 - 120	2	30
2-Nitroaniline	<0.20		1.66	1.31		mg/Kg	☼	79	52 - 121	2	30
2-Chloronaphthalene	<0.20		1.66	1.33		mg/Kg	☼	80	57 - 112	3	30
4-Chloro-3-methylphenol	<0.40		1.66	1.16		mg/Kg	☼	70	59 - 117	3	30
2,6-Dinitrotoluene	<0.20		1.66	1.30		mg/Kg	☼	78	57 - 118	0	30
2-Nitrophenol	<0.40		1.66	1.31		mg/Kg	☼	79	58 - 121	2	30
3-Nitroaniline	<0.40		1.66	1.58		mg/Kg	☼	95	20 - 144	11	30
Dimethyl phthalate	<0.20		1.66	1.30		mg/Kg	☼	78	60 - 112	1	30
2,4-Dinitrophenol	<0.81	F1 *	3.33	<0.84	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.040		1.66	1.23		mg/Kg	☼	74	57 - 116	0	30
2,4-Dinitrotoluene	<0.20		1.66	1.36		mg/Kg	☼	82	59 - 119	2	30
Acenaphthene	<0.040		1.66	1.33		mg/Kg	☼	80	52 - 113	1	30
Dibenzofuran	<0.20		1.66	1.36		mg/Kg	☼	82	59 - 110	1	30
4-Nitrophenol	<0.81	F2	3.33	2.02	F2	mg/Kg	☼	61	32 - 123	38	30
Fluorene	<0.040		1.66	1.33		mg/Kg	☼	80	56 - 115	1	30
4-Nitroaniline	<0.40		1.66	1.81		mg/Kg	☼	109	55 - 146	7	30
4-Bromophenyl phenyl ether	<0.20		1.66	1.34		mg/Kg	☼	81	61 - 124	3	30
Hexachlorobenzene	<0.081		1.66	1.38		mg/Kg	☼	83	62 - 126	4	30
Diethyl phthalate	<0.20		1.66	1.41		mg/Kg	☼	85	58 - 117	2	30
4-Chlorophenyl phenyl ether	<0.20		1.66	1.35		mg/Kg	☼	81	61 - 111	1	30
Pentachlorophenol	<0.81		3.33	2.41		mg/Kg	☼	72	12 - 116	5	30
N-Nitrosodiphenylamine	<0.20		1.66	1.36		mg/Kg	☼	82	62 - 117	4	30
4,6-Dinitro-2-methylphenol	<0.81		3.33	1.06		mg/Kg	☼	32	10 - 110	15	30
Phenanthrene	<0.040		1.66	1.38		mg/Kg	☼	83	58 - 125	2	30
Anthracene	<0.040		1.66	1.36		mg/Kg	☼	82	57 - 118	0	30
Carbazole	<0.20		1.66	1.64		mg/Kg	☼	99	65 - 137	2	30
Di-n-butyl phthalate	<0.20		1.66	1.38		mg/Kg	☼	83	61 - 123	4	30
Fluoranthene	<0.040		1.66	1.42		mg/Kg	☼	85	61 - 124	3	30
Pyrene	<0.040		1.66	1.34		mg/Kg	☼	80	60 - 115	1	30
Butyl benzyl phthalate	<0.20		1.66	1.30		mg/Kg	☼	78	61 - 115	1	30
Benzo[a]anthracene	<0.040		1.66	1.30		mg/Kg	☼	78	63 - 115	1	30
Chrysene	<0.040		1.66	1.28		mg/Kg	☼	77	63 - 118	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121303-2 MSD

Matrix: Solid

Analysis Batch: 366067

Client Sample ID: 1314V3-05-B02 (6-10.6)

Prep Type: Total/NA

Prep Batch: 366006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	<0.20		1.66	1.14		mg/Kg	☼	68	40 - 110	11	30
Bis(2-ethylhexyl) phthalate	<0.20		1.66	1.40		mg/Kg	☼	84	62 - 117	0	30
Di-n-octyl phthalate	<0.20		1.66	1.37		mg/Kg	☼	82	58 - 129	3	30
Benzo[b]fluoranthene	<0.040		1.66	1.51		mg/Kg	☼	90	61 - 123	2	30
Benzo[k]fluoranthene	<0.040		1.66	1.68		mg/Kg	☼	101	59 - 125	4	30
Benzo[a]pyrene	<0.040		1.66	1.36		mg/Kg	☼	82	64 - 122	1	30
Indeno[1,2,3-cd]pyrene	<0.040	F1	1.66	0.732	F1	mg/Kg	☼	44	50 - 149	1	30
Dibenz(a,h)anthracene	<0.040	F1	1.66	0.780	F1	mg/Kg	☼	47	61 - 134	0	30
Benzo[g,h,i]perylene	<0.040	F1	1.66	0.602	F1	mg/Kg	☼	36	55 - 134	0	30
3 & 4 Methylphenol	<0.20		1.66	1.36		mg/Kg	☼	82	55 - 124	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	86		40 - 130
Phenol-d5	75		36 - 123
Nitrobenzene-d5	78		33 - 124
2-Fluorobiphenyl	78		42 - 115
2,4,6-Tribromophenol	88		25 - 130
Terphenyl-d14	89		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-365252/1-A

Matrix: Solid

Analysis Batch: 365414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Barium	<1.0		1.0	0.18	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Boron	<5.0		5.0	0.70	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Cadmium	0.0649	J	0.20	0.058	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Calcium	8.22	J	20	6.4	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Chromium	<1.0		1.0	0.17	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Copper	<1.0		1.0	0.22	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Iron	9.33	J	20	7.7	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Lead	<0.50		0.50	0.25	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Magnesium	<10		10	4.1	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Potassium	<50		50	8.2	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Selenium	0.571	J	1.0	0.50	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Silver	<0.50		0.50	0.12	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Sodium	<100		100	13	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/15/16 09:32	12/15/16 17:22	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/15/16 09:32	12/15/16 17:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Lab Sample ID: LCS 500-365252/2-A
Matrix: Solid
Analysis Batch: 365414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365252
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	8.40		mg/Kg		84	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.53		mg/Kg		91	80 - 120
Boron	100	81.7		mg/Kg		82	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Calcium	1000	912		mg/Kg		91	80 - 120
Chromium	20.0	18.9		mg/Kg		95	80 - 120
Cobalt	50.0	46.7		mg/Kg		93	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	99.8		mg/Kg		100	80 - 120
Lead	10.0	8.77		mg/Kg		88	80 - 120
Magnesium	1000	866		mg/Kg		87	80 - 120
Manganese	50.0	45.8		mg/Kg		92	80 - 120
Nickel	50.0	46.5		mg/Kg		93	80 - 120
Potassium	1000	867		mg/Kg		87	80 - 120
Selenium	10.0	8.92		mg/Kg		89	80 - 120
Silver	5.00	4.39		mg/Kg		88	80 - 120
Sodium	1000	907		mg/Kg		91	80 - 120
Thallium	10.0	8.83		mg/Kg		88	80 - 120
Vanadium	50.0	47.8		mg/Kg		96	80 - 120
Zinc	50.0	45.1		mg/Kg		90	80 - 120

Lab Sample ID: 500-121303-1 MS
Matrix: Solid
Analysis Batch: 365414

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 365252
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.28	J F1	27.8	6.02	F1	mg/Kg	☼	21	75 - 125
Arsenic	4.4		5.57	9.23		mg/Kg	☼	87	75 - 125
Barium	81	F1	111	164	F1	mg/Kg	☼	74	75 - 125
Beryllium	0.46		2.78	2.70		mg/Kg	☼	80	75 - 125
Boron	4.6	F1	55.7	39.2	F1	mg/Kg	☼	62	75 - 125
Cadmium	0.30	B	2.78	2.59		mg/Kg	☼	82	75 - 125
Calcium	27000	B	557	20900	4	mg/Kg	☼	-1104	75 - 125
Chromium	11		11.1	23.7		mg/Kg	☼	115	75 - 125
Cobalt	7.9		27.8	35.5		mg/Kg	☼	99	75 - 125
Copper	12		13.9	24.2		mg/Kg	☼	87	75 - 125
Iron	12000	B	55.7	14500	4	mg/Kg	☼	4874	75 - 125
Lead	23		5.57	28.2	4	mg/Kg	☼	97	75 - 125
Magnesium	11000		557	10700	4	mg/Kg	☼	-6	75 - 125
Manganese	430		27.8	415	4	mg/Kg	☼	-53	75 - 125
Nickel	15		27.8	45.7		mg/Kg	☼	110	75 - 125
Potassium	980	F1	557	1770	F1	mg/Kg	☼	142	75 - 125
Selenium	0.35	J B F1	5.57	4.04	F1	mg/Kg	☼	66	75 - 125
Silver	<0.28		2.78	2.17		mg/Kg	☼	78	75 - 125
Sodium	120		557	576		mg/Kg	☼	82	75 - 125
Thallium	<0.55	F1	5.57	4.43		mg/Kg	☼	80	75 - 125
Vanadium	17		27.8	46.0		mg/Kg	☼	102	75 - 125
Zinc	67	F1	27.8	101		mg/Kg	☼	122	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121303-1 MSD

Matrix: Solid

Analysis Batch: 365414

Client Sample ID: 1314V3-05-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 365252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Antimony	0.28	J F1	25.1	4.93	F1	mg/Kg	☼	19	75 - 125	20	20
Arsenic	4.4		5.02	9.02		mg/Kg	☼	92	75 - 125	2	20
Barium	81	F1	100	147	F1	mg/Kg	☼	66	75 - 125	11	20
Beryllium	0.46		2.51	2.37		mg/Kg	☼	76	75 - 125	13	20
Boron	4.6	F1	50.2	36.6	F1	mg/Kg	☼	64	75 - 125	7	20
Cadmium	0.30	B	2.51	2.33		mg/Kg	☼	81	75 - 125	10	20
Calcium	27000	B	502	24400	4	mg/Kg	☼	-531	75 - 125	15	20
Chromium	11		10.0	20.3		mg/Kg	☼	93	75 - 125	16	20
Cobalt	7.9		25.1	31.2		mg/Kg	☼	93	75 - 125	13	20
Copper	12		12.6	24.7		mg/Kg	☼	100	75 - 125	2	20
Iron	12000	B	50.2	13700	4	mg/Kg	☼	3806	75 - 125	6	20
Lead	23		5.02	32.3	4	mg/Kg	☼	189	75 - 125	14	20
Magnesium	11000		502	11000	4	mg/Kg	☼	54	75 - 125	3	20
Manganese	430		25.1	459	4	mg/Kg	☼	116	75 - 125	10	20
Nickel	15		25.1	40.8		mg/Kg	☼	102	75 - 125	11	20
Potassium	980	F1	502	1630	F1	mg/Kg	☼	131	75 - 125	8	20
Selenium	0.35	J B F1	5.02	3.60	F1	mg/Kg	☼	65	75 - 125	11	20
Silver	<0.28		2.51	1.92		mg/Kg	☼	76	75 - 125	12	20
Sodium	120		502	526		mg/Kg	☼	81	75 - 125	9	20
Thallium	<0.55	F1	5.02	3.62	F1	mg/Kg	☼	72	75 - 125	20	20
Vanadium	17		25.1	39.5		mg/Kg	☼	88	75 - 125	15	20
Zinc	67	F1	25.1	109	F1	mg/Kg	☼	165	75 - 125	7	20

Lab Sample ID: 500-121303-1 DU

Matrix: Solid

Analysis Batch: 365414

Client Sample ID: 1314V3-05-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 365252

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	0.28	J F1	<1.0		mg/Kg	☼	NC	20
Arsenic	4.4		4.45		mg/Kg	☼	1	20
Barium	81	F1	57.0	F3	mg/Kg	☼	35	20
Beryllium	0.46		0.455		mg/Kg	☼	2	20
Boron	4.6	F1	4.15		mg/Kg	☼	10	20
Cadmium	0.30	B	0.246		mg/Kg	☼	18	20
Calcium	27000	B	18200	F3	mg/Kg	☼	39	20
Chromium	11		12.0		mg/Kg	☼	9	20
Cobalt	7.9		6.12	F3	mg/Kg	☼	26	20
Copper	12		11.1		mg/Kg	☼	8	20
Iron	12000	B	13300		mg/Kg	☼	13	20
Lead	23		16.9	F3	mg/Kg	☼	30	20
Magnesium	11000		8620	F3	mg/Kg	☼	22	20
Manganese	430		235	F3	mg/Kg	☼	59	20
Nickel	15		16.0		mg/Kg	☼	5	20
Potassium	980	F1	976		mg/Kg	☼	0.08	20
Selenium	0.35	J B F1	0.509	J F5	mg/Kg	☼	36	20
Silver	<0.28		<0.26		mg/Kg	☼	NC	20
Sodium	120		83.9	F5	mg/Kg	☼	35	20
Thallium	<0.55	F1	<0.52		mg/Kg	☼	NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121303-1 DU
Matrix: Solid
Analysis Batch: 365414

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 365252

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Vanadium	17		19.3		mg/Kg	✘	10	20
Zinc	67	F1	65.2		mg/Kg	✘	3	20

Lab Sample ID: LCS 500-365308/2-A
Matrix: Solid
Analysis Batch: 365880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365308
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.514		mg/L		103	80 - 120

Lab Sample ID: LCS 500-365312/2-A
Matrix: Solid
Analysis Batch: 366071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365312
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Boron	1.00	0.991		mg/L		99	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Cobalt	0.500	0.516		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Manganese	0.500	0.552		mg/L		110	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.0943		mg/L		94	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120
Zinc	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: LCS 500-366367/2-A
Matrix: Solid
Analysis Batch: 366563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366367
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits

Lab Sample ID: LB 500-365093/1-C
Matrix: Solid
Analysis Batch: 366071

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365312

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/15/16 15:03	12/20/16 15:18	1
Boron	<0.50		0.50	0.050	mg/L		12/15/16 15:03	12/20/16 15:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/15/16 15:03	12/20/16 15:18	1
Chromium	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:18	1
Cobalt	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:18	1
Iron	<0.40		0.40	0.20	mg/L		12/15/16 15:03	12/20/16 15:18	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-365093/1-C
Matrix: Solid
Analysis Batch: 366071

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365312

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	0.0473		0.0075	0.0075	mg/L		12/15/16 15:03	12/20/16 15:18	1
Manganese	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:18	1
Nickel	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:18	1
Selenium	<0.050		0.050	0.020	mg/L		12/15/16 15:03	12/20/16 15:18	1
Silver	<0.025		0.025	0.010	mg/L		12/15/16 15:03	12/20/16 15:18	1
Zinc	<0.50		0.50	0.020	mg/L		12/15/16 15:03	12/20/16 15:18	1

Lab Sample ID: 500-121303-13 MS
Matrix: Solid
Analysis Batch: 366071

Client Sample ID: 1314V3-24-B08 (0-8)
Prep Type: TCLP
Prep Batch: 365312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.30	J	0.500	0.783		mg/L		97	50 - 150
Beryllium	<0.0040		0.0500	0.0472		mg/L		94	50 - 150
Boron	0.076	J	1.00	0.991		mg/L		92	50 - 150
Cadmium	<0.0050		0.0500	0.0445		mg/L		89	50 - 150
Chromium	<0.025		0.200	0.184		mg/L		92	50 - 150
Cobalt	<0.025		0.500	0.436		mg/L		87	50 - 150
Iron	<0.40		1.00	1.11		mg/L		111	50 - 150
Lead	<0.0075		0.100	0.0904		mg/L		90	50 - 150
Manganese	0.050		0.500	0.534		mg/L		97	50 - 150
Nickel	<0.025		0.500	0.434		mg/L		87	50 - 150
Selenium	<0.050		0.100	0.102		mg/L		102	50 - 150
Silver	<0.025		0.0500	0.0498		mg/L		100	50 - 150
Zinc	<0.50		0.500	0.462	J	mg/L		92	50 - 150

Lab Sample ID: 500-121303-13 DU
Matrix: Solid
Analysis Batch: 366071

Client Sample ID: 1314V3-24-B08 (0-8)
Prep Type: TCLP
Prep Batch: 365312

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.30	J	0.289	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.076	J	0.0728	J	mg/L		4	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.050		0.0484		mg/L		2	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-366175/1-C
Matrix: Solid
Analysis Batch: 366563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366367

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 11:51	1

Lab Sample ID: LB 500-365087/1-B
Matrix: Solid
Analysis Batch: 365880

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 365308

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/15/16 14:57	12/19/16 19:52	1
Manganese	<0.025		0.025	0.010	mg/L		12/15/16 14:57	12/19/16 19:52	1

Lab Sample ID: 500-121303-8 MS
Matrix: Solid
Analysis Batch: 365880

Client Sample ID: 1314V3-17-B03 (0-7)D
Prep Type: SPLP East
Prep Batch: 365308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	1.2	F1	0.500	0.706	F1	mg/L		-105	50 - 150

Lab Sample ID: 500-121303-8 DU
Matrix: Solid
Analysis Batch: 365880

Client Sample ID: 1314V3-17-B03 (0-7)D
Prep Type: SPLP East
Prep Batch: 365308

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	1.2	F1	1.20		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-365308/2-A
Matrix: Solid
Analysis Batch: 365952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.460		mg/L		92	80 - 120

Lab Sample ID: LCS 500-365312/2-A
Matrix: Solid
Analysis Batch: 365695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.477		mg/L		95	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LB 500-365093/1-C
Matrix: Solid
Analysis Batch: 365695

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365312

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 15:03	12/16/16 17:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/15/16 15:03	12/16/16 17:25	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-121303-13 MS

Matrix: Solid
Analysis Batch: 365695

Client Sample ID: 1314V3-24-B08 (0-8)

Prep Type: TCLP
Prep Batch: 365312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.414		mg/L		83	50 - 150
Thallium	<0.0020		0.100	0.109		mg/L		109	50 - 150

Lab Sample ID: 500-121303-13 DU

Matrix: Solid
Analysis Batch: 365695

Client Sample ID: 1314V3-24-B08 (0-8)

Prep Type: TCLP
Prep Batch: 365312

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-365087/1-B

Matrix: Solid
Analysis Batch: 365952

Client Sample ID: Method Blank

Prep Type: SPLP East
Prep Batch: 365308

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/15/16 14:57	12/20/16 12:51	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-365289/35-A

Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 365289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:18	1

Lab Sample ID: LCS 500-365289/36-A

Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 365289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00209		mg/L		105	80 - 120

Lab Sample ID: LB 500-365093/1-B

Matrix: Solid
Analysis Batch: 365486

Client Sample ID: Method Blank

Prep Type: TCLP
Prep Batch: 365289

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/15/16 13:00	12/16/16 09:31	1

Lab Sample ID: 500-121303-1 MS

Matrix: Solid
Analysis Batch: 365486

Client Sample ID: 1314V3-05-B02 (0-6)

Prep Type: TCLP
Prep Batch: 365289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-121303-1 DU
Matrix: Solid
Analysis Batch: 365486

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: TCLP
Prep Batch: 365289

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-365341/12-A
Matrix: Solid
Analysis Batch: 365514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/15/16 17:00	12/16/16 09:37	1

Lab Sample ID: LCS 500-365341/13-A
Matrix: Solid
Analysis Batch: 365514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365341
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.168		mg/Kg		100	80 - 120

Lab Sample ID: 500-121303-1 MS
Matrix: Solid
Analysis Batch: 365514

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 365341
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.065		0.0919	0.163		mg/Kg	☼	106	75 - 125

Lab Sample ID: 500-121303-1 MSD
Matrix: Solid
Analysis Batch: 365514

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 365341
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.065		0.0952	0.164		mg/Kg	☼	103	75 - 125	1	20

Lab Sample ID: 500-121303-1 DU
Matrix: Solid
Analysis Batch: 365514

Client Sample ID: 1314V3-05-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 365341

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.065		0.0646		mg/Kg	☼	0.9	20

Method: 9045D - pH

Lab Sample ID: 500-121303-13 DU
Matrix: Solid
Analysis Batch: 365560

Client Sample ID: 1314V3-24-B08 (0-8)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.9		8.0		SU		0.5	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:05	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 15:31	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 17:32	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:36	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		JB	TAL CHI
					(Start)	12/16/16 15:44		
					(End)	12/16/16 15:46		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-05-B02 (0-6)

Lab Sample ID: 500-121303-1

Date Collected: 12/09/16 08:25

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 19:20	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 12:08	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 17:38	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 09:46	MJD	TAL CHI

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:12	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 15:38	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	365695	12/16/16 17:46	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:45	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560	(Start) 12/16/16 15:46 (End) 12/16/16 15:49	JBK	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-05-B02 (6-10.6)

Lab Sample ID: 500-121303-2

Date Collected: 12/09/16 08:30

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 19:46	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 12:36	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 17:58	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 09:58	MJD	TAL CHI

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:19	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 15:45	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:00	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 17:49	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:47	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	365560	12/16/16 15:49 (Start) 12/16/16 15:52 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-05-B03 (0-5.9)

Lab Sample ID: 500-121303-3

Date Collected: 12/09/16 08:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 20:12	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 18:12	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	365688	12/18/16 21:44	PJ1	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:10	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:01	MJD	TAL CHI

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:26	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 15:51	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 17:53	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560	12/16/16 15:52 (Start) 12/16/16 15:54 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-05-B01 (0-5)

Lab Sample ID: 500-121303-4

Date Collected: 12/09/16 10:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 20:38	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 13:04	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:14	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:03	MJD	TAL CHI

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:48	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 15:58	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 17:56	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560	(Start) 12/16/16 15:54 (End) 12/16/16 15:57	JB	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-17-B01 (0-7)

Lab Sample ID: 500-121303-5

Date Collected: 12/09/16 09:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 21:04	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 13:32	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:18	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:06	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 20:55	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 16:05	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:04	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 17:59	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		JB	TAL CHI
					(Start)	12/16/16 15:57		
					(End)	12/16/16 15:59		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-17-B02 (0-7)

Lab Sample ID: 500-121303-6

Date Collected: 12/09/16 09:35

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 21:30	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 18:40	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		5	365414	12/15/16 18:22	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:12	MJD	TAL CHI

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 21:02	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	366071	12/20/16 16:12	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:03	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		BJJ	TAL CHI
					(Start)	12/16/16 15:59		
					(End)	12/16/16 16:02		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-17-B03 (0-7)

Lab Sample ID: 500-121303-7

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 21:56	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 14:00	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:26	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:15	MJD	TAL CHI

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 21:09	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 16:18	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:06	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:54	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	365560	12/16/16 16:02 (Start) 12/16/16 16:05 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-17-B03 (0-7)D

Lab Sample ID: 500-121303-8

Date Collected: 12/09/16 09:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 22:22	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 15:52	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:30	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:17	MJD	TAL CHI

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 21:36	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 16:41	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:10	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 09:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560	12/16/16 16:05 (Start) 12/16/16 16:07 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B06 (0-4)

Lab Sample ID: 500-121303-9

Date Collected: 12/09/16 11:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 22:48	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 19:08	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:34	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:20	MJD	TAL CHI

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 21:42	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 16:48	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:09	PJ1	TAL CHI
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6020A		1	365952	12/20/16 12:58	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:13	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		JB	TAL CHI
					(Start)	12/16/16 16:07		
					(End)	12/16/16 16:10		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/12/16 23:14	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B05 (0-5)

Lab Sample ID: 500-121303-10

Date Collected: 12/09/16 11:45

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 17:44	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:38	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:22	MJD	TAL CHI

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 16:55	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:17	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		BJB	TAL CHI
					(Start)	12/16/16 16:10		
					(End)	12/16/16 16:12		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-24-B05 (5-10)

Lab Sample ID: 500-121303-11

Date Collected: 12/09/16 11:50

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364850	12/13/16 16:37	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 16:20	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:41	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:24	MJD	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365087	12/14/16 12:08	RMP	TAL CHI
SPLP East	Prep	3010A			365308	12/15/16 14:57	JNH	TAL CHI
SPLP East	Analysis	6010B		1	365880	12/19/16 22:12	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 17:01	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:14	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6020A		1	365695	12/16/16 18:27	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560		JB	TAL CHI
					(Start)	12/16/16 16:12		
					(End)	12/16/16 16:15		
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-24-B07 (0-5)

Lab Sample ID: 500-121303-12

Date Collected: 12/09/16 12:05

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364850	12/13/16 14:26	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 16:48	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:45	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		5	365514	12/16/16 13:47	MJD	TAL CHI

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI
TCLP	Analysis	6010B		1	366071	12/20/16 17:20	PJ1	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	3010A			365312	12/15/16 15:03	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	365695	12/16/16 18:30	FXG	TAL CHI
TCLP	Leach	1311			365093	12/14/16 12:08	RMP	TAL CHI
TCLP	Prep	7470A			365289	12/15/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	365486	12/16/16 10:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	365560	(Start) 12/16/16 16:15 (End) 12/16/16 16:18	JBK	TAL CHI
Total/NA	Analysis	Moisture		1	364708	12/12/16 15:05	LWN	TAL CHI

Client Sample ID: 1314V3-24-B08 (0-8)

Lab Sample ID: 500-121303-13

Date Collected: 12/09/16 12:20

Matrix: Solid

Date Received: 12/10/16 07:15

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			364581	12/10/16 08:55	PJH	TAL CHI
Total/NA	Analysis	8260B		1	364654	12/13/16 00:32	EMA	TAL CHI
Total/NA	Prep	3541			366006	12/20/16 16:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366067	12/21/16 17:16	AJD	TAL CHI
Total/NA	Prep	3050B			365252	12/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	365414	12/15/16 18:57	PJ1	TAL CHI
Total/NA	Prep	7471B			365341	12/15/16 17:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365514	12/16/16 10:29	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121303-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.534.5201



500-121303 COC

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121303

Chain of Custody Number: EE4622

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Parameter										
Project Location/State		Lab PM												
Sample #														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix							Comments	
			Date	Time										
1		1314V3-05-B02 (0-6)	12-9-16	0825	2 S		WOL	SVOL	TOTAL TAC	metals	TCP/SMP	TAL met. ds	12/9/16	
2		1314V3-05-B02 (6-10.6)	12-9-16	0830	2 S									64C08
3		1314V3-05-B03 (0-5.4)	12-9-16	0845	2 S									
4		1314V3-05-B01 (0-5)	12-9-16	1020	2 S									
12-9-16														

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>EE</u> Company: _____ Date: <u>12-9-16</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/9/16</u> Time: <u>1530</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/9/16</u> Time: <u>1800</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/10/16</u> Time: <u>0715</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121303
Chain of Custody Number: EE4633
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter								Preservative Key		
EE		1009008-0046-01												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #														
F74		50012744														
Project Location/State		Lab PM														
Rock Island County, IL		D. Wright														
Sampler																
S. Cooper																
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total Trace Metals	2 Cup 15 min	Total Metals	Pb 190 Solids				Comments
			Date	Time												
5		1314V3-17-B01(0-7)	12-9-16	0920	2	S	X	X	X	X	X					64008
6		1314V3-17-B02(0-7)	12-9-16	0935	2	S	X	X	X	X	X					
7		1314V3-17-B03(0-7)	12-9-16	0950	2	S	X	X	X	X	X					
8		1314V3-17-B03(0-7) D	12-9-16	0950	2	S	X	X	X	X	X					
12-9-16																

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>EE</u> Date: <u>12/9/16</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/9/16</u> Time: <u>1530</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/9/16</u> Time: <u>1800</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>12/10/16</u> Time: <u>0715</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- | | |
|--------------------|---------------------|
| WW - Wastewater | SE - Sediment |
| W - Water | SO - Soil |
| S - Soil | L - Leachate |
| SL - Sludge | WI - Wipe |
| MS - Miscellaneous | DW - Drinking Water |
| OL - Oil | O - Other |
| A - Air | |

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121303
Chain of Custody Number: EE46-34
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key			
EE		1009008-0046-01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #																	
I74		50012744																	
Project Location/State		Lab PM																	
Pork Island County IL		Duck Wright																	
Sampler																			
S-Looper																			
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total PAH	Total PAH	Total PAH	PAH/MSD						Comments	
			Date	Time															
9		1314V3-24-B06 (0-4)	12-9-16	1120	2 S		X	X	X	X	X								60409
10		1314V3-24-B05 (0-5)	12-9-16	1145	2 S		X	X	X	X	X								
11		1314V3-24-B05 (5-10)	12-9-16	1150	2 S		X	X	X	X	X								
12		1314V3-24-B09 (0-5)	12-9-16	1205	2 S		X	X	X	X	X								
13		1314V3-24-B08 (0-8)	12-9-16	1220	2 S		X	X	X	X	X								

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other 10 Days
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Lab Courier
<i>[Signature]</i>	EE	12-9-16	1530	<i>[Signature]</i>	TA	12/9/16	1530	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
<i>[Signature]</i>	TA	12/9/16	1800	<i>[Signature]</i>	TA	12/20/16	0915	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
 Lab Comments:

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121303-1

Login Number: 121303

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121429-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/29/2016 11:15:46 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 12
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- 14
- 15



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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Job ID: 500-121429-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121429-1

Comments

No additional comments.

Receipt

The samples were received on 12/14/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 4.9° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following samples was outside the upper control limit: 1314V3-06-B09 (0-2) (500-121429-12) and 1314V3-06-B06 (0-4) (500-121429-14). The samples did not contain any target analytes; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: 1314V3-06-B09 (0-2) (500-121429-12). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: 1314V3-24-B09 (0-4) (500-121429-1), 1314V3-24-B02 (0-5) (500-121429-9), 1314V3-06-B09 (0-2) (500-121429-12), (500-121429-E-1-Q MS) and (500-121429-E-1-R MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121429-E-1-Q MS) and (500-121429-E-1-R MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the nature of the sample matrix: 1314V3-24-B01 (0-5.8) (500-121429-3), 1314V3-24-B04 (0-5) (500-121429-4), 1314V3-24-B03 (0-5) (500-121429-7) and 1314V3-24-B02 (0-5) (500-121429-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: 1314V3-06-B09 (0-2) (500-121429-12) and 1314V3-06-B07 (0-4.3) (500-121429-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.032	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0074	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.043		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.084	F1	0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.067		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.042		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J F1	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.5	F1	0.95	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	62	F1	0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	5.2	F1	2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	F1	0.095	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000	F2	95	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	15	F1	0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	65		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7200	F2	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	700	F1	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J F1	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	74	F1	0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.067	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.092		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.034	0.0052	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0096	J	0.068	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.021	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.21		0.034	0.0061	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.058	J	0.17	0.040	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.18		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	2.3		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.72		0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.26		0.17	0.085	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5) (Continued)

Lab Sample ID: 500-121429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene - DL	8.5		0.17	0.031	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	9.2		0.17	0.034	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	4.3		0.17	0.023	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	3.9		0.17	0.046	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	7.2		0.17	0.037	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	2.3		0.17	0.050	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	5.0		0.17	0.033	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1.5		0.17	0.044	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.42		0.17	0.033	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.3		0.17	0.055	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.54	J	0.91	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.46	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.098		0.091	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000		91	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	5.3	B	0.46	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.46	0.099	mg/Kg	1	☼	6010B	Total/NA
Iron	6200		9.1	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	170		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5000		4.6	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.46	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.46	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	300		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.23	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		46	6.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		0.91	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.044		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.068	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.057		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0084	J	0.016	0.0084	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.029	J	0.075	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0094	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0080	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8) (Continued)

Lab Sample ID: 500-121429-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.044		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.58		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.59		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.26		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.28		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.44		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.25		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.088		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.085		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.3	J	4.6	0.96	mg/Kg	5	☼	6010B	Total/NA
Arsenic	4.1		2.3	1.1	mg/Kg	5	☼	6010B	Total/NA
Barium	270		2.3	0.43	mg/Kg	5	☼	6010B	Total/NA
Beryllium	2.9		0.93	0.20	mg/Kg	5	☼	6010B	Total/NA
Boron	110		12	1.6	mg/Kg	5	☼	6010B	Total/NA
Calcium	28000		46	15	mg/Kg	5	☼	6010B	Total/NA
Chromium	21	B	2.3	0.40	mg/Kg	5	☼	6010B	Total/NA
Cobalt	11		1.2	0.26	mg/Kg	5	☼	6010B	Total/NA
Copper	40		2.3	0.50	mg/Kg	5	☼	6010B	Total/NA
Iron	71000		46	18	mg/Kg	5	☼	6010B	Total/NA
Lead	52		1.2	0.58	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1200		23	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	250		2.3	0.46	mg/Kg	5	☼	6010B	Total/NA
Nickel	30		2.3	0.63	mg/Kg	5	☼	6010B	Total/NA
Potassium	2000		120	19	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.4		2.3	1.2	mg/Kg	5	☼	6010B	Total/NA
Sodium	1500		230	31	mg/Kg	5	☼	6010B	Total/NA
Vanadium	46		1.2	0.34	mg/Kg	5	☼	6010B	Total/NA
Zinc	170		4.6	1.5	mg/Kg	5	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.025		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.058		0.043	0.0066	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.042	J	0.087	0.0079	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.082		0.043	0.0057	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.088		0.043	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.080		0.043	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.4		0.043	0.0060	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.27		0.043	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.2		0.043	0.0080	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5) (Continued)

Lab Sample ID: 500-121429-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	2.2		0.043	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.1		0.043	0.0058	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.2		0.043	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.5		0.043	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.58		0.043	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.1		0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.41		0.043	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.11		0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.42		0.043	0.014	mg/Kg	1	☼	8270D	Total/NA
Antimony	2.4	J	5.4	1.1	mg/Kg	5	☼	6010B	Total/NA
Arsenic	4.6		2.7	1.2	mg/Kg	5	☼	6010B	Total/NA
Barium	140		2.7	0.49	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.91	J	1.1	0.23	mg/Kg	5	☼	6010B	Total/NA
Boron	9.2	J	13	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.46	J	0.54	0.15	mg/Kg	5	☼	6010B	Total/NA
Calcium	8500		54	17	mg/Kg	5	☼	6010B	Total/NA
Chromium	17	B	2.7	0.46	mg/Kg	5	☼	6010B	Total/NA
Cobalt	6.4		1.3	0.30	mg/Kg	5	☼	6010B	Total/NA
Copper	220		2.7	0.58	mg/Kg	5	☼	6010B	Total/NA
Iron	27000		54	21	mg/Kg	5	☼	6010B	Total/NA
Lead	110		1.3	0.67	mg/Kg	5	☼	6010B	Total/NA
Magnesium	2700		27	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	280		2.7	0.53	mg/Kg	5	☼	6010B	Total/NA
Nickel	20		2.7	0.73	mg/Kg	5	☼	6010B	Total/NA
Potassium	1100		130	22	mg/Kg	5	☼	6010B	Total/NA
Sodium	720		270	35	mg/Kg	5	☼	6010B	Total/NA
Vanadium	20		1.3	0.39	mg/Kg	5	☼	6010B	Total/NA
Zinc	190		5.4	1.7	mg/Kg	5	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.32	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.0091		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.011		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.39		0.094	0.049	mg/Kg	5	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10) (Continued)

Lab Sample ID: 500-121429-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.4	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	5400		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4200		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	1000		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.086	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	2.3	J	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.098	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	6700		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.9		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	8.5		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	8.8		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	680		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)D (Continued)

Lab Sample ID: 500-121429-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0072	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.049		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.083		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.084		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.051		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.091		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.037	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	5.0		5.0	1.0	mg/Kg	5	☼	6010B	Total/NA
Arsenic	10		2.5	1.2	mg/Kg	5	☼	6010B	Total/NA
Barium	84		2.5	0.46	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.1		1.0	0.22	mg/Kg	5	☼	6010B	Total/NA
Boron	19		13	1.8	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.5		0.50	0.15	mg/Kg	5	☼	6010B	Total/NA
Calcium	6000		50	16	mg/Kg	5	☼	6010B	Total/NA
Chromium	15	B	2.5	0.43	mg/Kg	5	☼	6010B	Total/NA
Cobalt	8.0		1.3	0.29	mg/Kg	5	☼	6010B	Total/NA
Copper	220		2.5	0.55	mg/Kg	5	☼	6010B	Total/NA
Iron	58000		50	19	mg/Kg	5	☼	6010B	Total/NA
Lead	220		1.3	0.63	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1200		25	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	580		2.5	0.50	mg/Kg	5	☼	6010B	Total/NA
Nickel	22		2.5	0.68	mg/Kg	5	☼	6010B	Total/NA
Potassium	700		130	21	mg/Kg	5	☼	6010B	Total/NA
Selenium	1.4	J	2.5	1.2	mg/Kg	5	☼	6010B	Total/NA
Sodium	210	J	250	33	mg/Kg	5	☼	6010B	Total/NA
Vanadium	28		1.3	0.37	mg/Kg	5	☼	6010B	Total/NA
Zinc	700		5.0	1.6	mg/Kg	5	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.088		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.31		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10) (Continued)

Lab Sample ID: 500-121429-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	0.98	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	2.5	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.089	J	0.098	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	8300		9.8	3.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.7	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	7.6		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	7.2		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5000		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.016	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.089		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.44		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.038	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.094		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.21		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	18		4.9	1.0	mg/Kg	5	☼	6010B	Total/NA
Arsenic	32		2.4	1.1	mg/Kg	5	☼	6010B	Total/NA
Barium	110		2.4	0.45	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.5		0.98	0.21	mg/Kg	5	☼	6010B	Total/NA
Boron	36		12	1.7	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.44	J	0.49	0.14	mg/Kg	5	☼	6010B	Total/NA
Calcium	57000		49	16	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5) (Continued)

Lab Sample ID: 500-121429-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	24	B	2.4	0.42	mg/Kg	5	☼	6010B	Total/NA
Cobalt	19		1.2	0.28	mg/Kg	5	☼	6010B	Total/NA
Copper	1000		2.4	0.53	mg/Kg	5	☼	6010B	Total/NA
Iron	150000		49	19	mg/Kg	5	☼	6010B	Total/NA
Lead	690		1.2	0.61	mg/Kg	5	☼	6010B	Total/NA
Magnesium	4100		24	9.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	830		2.4	0.48	mg/Kg	5	☼	6010B	Total/NA
Nickel	40		2.4	0.66	mg/Kg	5	☼	6010B	Total/NA
Potassium	860		120	20	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.6		2.4	1.2	mg/Kg	5	☼	6010B	Total/NA
Silver	0.65	J	1.2	0.29	mg/Kg	5	☼	6010B	Total/NA
Sodium	900		240	32	mg/Kg	5	☼	6010B	Total/NA
Vanadium	51		1.2	0.36	mg/Kg	5	☼	6010B	Total/NA
Zinc	670		4.9	1.5	mg/Kg	5	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.097	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.54	B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.034		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.032		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.019		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.13		0.017	0.0087	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.35	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.077	J	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	2700		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	8.7		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	7.8		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	810		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		60	7.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10) (Continued)

Lab Sample ID: 500-121429-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	29		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.020	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.011	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.019	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.015	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.28		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.057		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.51		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.45		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.23		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.40		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.099		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.096		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.039		0.018	0.0039	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.021		0.018	0.0089	mg/Kg	1	☼	8082A	Total/NA
Arsenic	4.3		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42		0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000		53	17	mg/Kg	5	☼	6010B	Total/NA
Chromium	16	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.1		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	83		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2) (Continued)

Lab Sample ID: 500-121429-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.042	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.016	0.0084	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.48		0.19	0.029	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.66		0.38	0.035	mg/Kg	5	☼	8270D	Total/NA
Acenaphthylene	0.030	J	0.19	0.025	mg/Kg	5	☼	8270D	Total/NA
Acenaphthene	0.042	J	0.19	0.034	mg/Kg	5	☼	8270D	Total/NA
Dibenzofuran	0.23	J	0.95	0.22	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.028	J	0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.85		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.074	J	0.19	0.031	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.68		0.19	0.035	mg/Kg	5	☼	8270D	Total/NA
Pyrene	1.2		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.50		0.19	0.025	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.58		0.19	0.051	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.2		0.19	0.041	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.40		0.19	0.055	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.73		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.34		0.19	0.049	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.069	J	0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.29		0.19	0.061	mg/Kg	5	☼	8270D	Total/NA
Arsenic	5.7		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	60		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.53	J	1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Boron	6.5	J	14	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.44	J	0.55	0.16	mg/Kg	5	☼	6010B	Total/NA
Calcium	23000		55	18	mg/Kg	5	☼	6010B	Total/NA
Chromium	21	B	2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	3.3		1.4	0.31	mg/Kg	5	☼	6010B	Total/NA
Copper	20		2.8	0.60	mg/Kg	5	☼	6010B	Total/NA
Iron	17000		55	21	mg/Kg	5	☼	6010B	Total/NA
Lead	39		1.4	0.69	mg/Kg	5	☼	6010B	Total/NA
Magnesium	4000		28	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	440		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	49		2.8	0.75	mg/Kg	5	☼	6010B	Total/NA
Potassium	610		140	23	mg/Kg	5	☼	6010B	Total/NA
Silver	0.81	J	1.4	0.32	mg/Kg	5	☼	6010B	Total/NA
Sodium	140	J	280	36	mg/Kg	5	☼	6010B	Total/NA
Vanadium	45		1.4	0.40	mg/Kg	5	☼	6010B	Total/NA
Zinc	72		5.5	1.7	mg/Kg	5	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B09 (0-2) (Continued)

Lab Sample ID: 500-121429-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.017	0.0090	mg/Kg	1	*	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.097		0.038	0.0060	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.12		0.078	0.0071	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.0075	J	0.038	0.0054	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.13		0.038	0.0054	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.0073	J	0.038	0.0065	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.096		0.038	0.0072	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.072		0.038	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.052		0.038	0.0052	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.083		0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.038	0.0084	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.037	J	0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.067		0.038	0.0075	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.010	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.016	J	0.038	0.0075	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.049		0.038	0.012	mg/Kg	1	*	8270D	Total/NA
Arsenic	2.4		0.49	0.23	mg/Kg	1	*	6010B	Total/NA
Barium	75		0.49	0.090	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.41		0.20	0.043	mg/Kg	1	*	6010B	Total/NA
Boron	5.6		2.5	0.34	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.26		0.099	0.029	mg/Kg	1	*	6010B	Total/NA
Calcium	3800		9.9	3.2	mg/Kg	1	*	6010B	Total/NA
Chromium	13	B	0.49	0.085	mg/Kg	1	*	6010B	Total/NA
Cobalt	6.1		0.25	0.056	mg/Kg	1	*	6010B	Total/NA
Copper	14		0.49	0.11	mg/Kg	1	*	6010B	Total/NA
Iron	11000		9.9	3.8	mg/Kg	1	*	6010B	Total/NA
Lead	16		0.25	0.12	mg/Kg	1	*	6010B	Total/NA
Magnesium	1300		4.9	2.0	mg/Kg	1	*	6010B	Total/NA
Manganese	410		0.49	0.098	mg/Kg	1	*	6010B	Total/NA
Nickel	23		0.49	0.13	mg/Kg	1	*	6010B	Total/NA
Potassium	1200		25	4.0	mg/Kg	1	*	6010B	Total/NA
Sodium	120		49	6.5	mg/Kg	1	*	6010B	Total/NA
Vanadium	15		0.25	0.072	mg/Kg	1	*	6010B	Total/NA
Zinc	66		0.99	0.31	mg/Kg	1	*	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.16		0.017	0.0090	mg/Kg	1	*	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8) (Continued)

Lab Sample ID: 500-121429-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.21		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.36		0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0096	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.020	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.17	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.35		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.040		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.35		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.41		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.29		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.58		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.21		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.34		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	0.47		0.19	0.064	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	5.6		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.4		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	42	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.9		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	86		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	29000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	230		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	68		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Silver	0.46		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	200		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.076	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4) (Continued)

Lab Sample ID: 500-121429-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.059		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.36		0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.42		0.071	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.22		0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.37		0.18	0.041	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.22		0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.4		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.42		0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.18		0.18	0.089	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.5		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.64		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.66		0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.2		0.18	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.50		0.18	0.052	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.81		0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.35		0.18	0.046	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.11	J	0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.25		0.18	0.057	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.27		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.1		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.1		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	24	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.0		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	59		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	110		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	62		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	320		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Sodium	90		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.017		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5) (Continued)

Lab Sample ID: 500-121429-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	6.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.57		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.081		0.016	0.0085	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.033	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.17		0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.015	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0088	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
4-Nitroaniline	0.27	J	0.39	0.16	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.18		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.040		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.082		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.96	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	380		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	18		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	12		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	40	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	35		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	36000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	570		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	870		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	2100		6.0	1.9	mg/Kg	5	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.10		0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10) (Continued)

Lab Sample ID: 500-121429-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.60		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.72		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.061		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	12	B	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.25		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.52		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.18		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.95		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.43		0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.046		0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.75		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.42		0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.61		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	1.1		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.71		0.19	0.095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	5.9		0.19	0.027	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	7.0		0.19	0.035	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	6.7		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	3.2		0.19	0.026	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	2.9		0.19	0.052	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	4.4		0.19	0.041	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.8		0.19	0.056	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	3.5		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	1.0		0.19	0.049	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.36		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.94		0.19	0.061	mg/Kg	5	☼	8270D	Total/NA
Arsenic	4.0		2.7	1.2	mg/Kg	5	☼	6010B	Total/NA
Barium	90		2.7	0.49	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.80	J	1.1	0.23	mg/Kg	5	☼	6010B	Total/NA
Boron	11	J	13	1.9	mg/Kg	5	☼	6010B	Total/NA
Cadmium	1.2		0.53	0.15	mg/Kg	5	☼	6010B	Total/NA
Calcium	6200		53	17	mg/Kg	5	☼	6010B	Total/NA
Chromium	35	B	2.7	0.46	mg/Kg	5	☼	6010B	Total/NA
Cobalt	5.7		1.3	0.30	mg/Kg	5	☼	6010B	Total/NA
Copper	21		2.7	0.58	mg/Kg	5	☼	6010B	Total/NA
Iron	78000		53	20	mg/Kg	5	☼	6010B	Total/NA
Lead	46		1.3	0.66	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1600		27	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	440		2.7	0.53	mg/Kg	5	☼	6010B	Total/NA
Nickel	25		2.7	0.72	mg/Kg	5	☼	6010B	Total/NA
Potassium	620		130	22	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3) (Continued)

Lab Sample ID: 500-121429-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.36	J	1.3	0.31	mg/Kg	5	☼	6010B	Total/NA
Sodium	93	J	270	35	mg/Kg	5	☼	6010B	Total/NA
Vanadium	24		1.3	0.39	mg/Kg	5	☼	6010B	Total/NA
Zinc	250		5.3	1.7	mg/Kg	5	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.050	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.016		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.21	F1	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J B F1	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.20		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121429-1	1314V3-24-B09 (0-4)	Solid	12/13/16 10:50	12/14/16 10:30
500-121429-2	1314V3-24-B10 (0-5)	Solid	12/13/16 14:45	12/14/16 10:30
500-121429-3	1314V3-24-B01 (0-5.8)	Solid	12/13/16 15:10	12/14/16 10:30
500-121429-4	1314V3-24-B04 (0-5)	Solid	12/13/16 16:05	12/14/16 10:30
500-121429-5	1314V3-24-B04 (5-10)	Solid	12/13/16 16:10	12/14/16 10:30
500-121429-6	1314V3-24-B04 (5-10)D	Solid	12/13/16 16:10	12/14/16 10:30
500-121429-7	1314V3-24-B03 (0-5)	Solid	12/13/16 16:35	12/14/16 10:30
500-121429-8	1314V3-24-B03 (5-10)	Solid	12/13/16 16:40	12/14/16 10:30
500-121429-9	1314V3-24-B02 (0-5)	Solid	12/13/16 17:15	12/14/16 10:30
500-121429-10	1314V3-24-B02 (5-10)	Solid	12/13/16 17:30	12/14/16 10:30
500-121429-11	1314V3-06-B04 (0-5.2)	Solid	12/13/16 11:45	12/14/16 10:30
500-121429-12	1314V3-06-B09 (0-2)	Solid	12/13/16 12:05	12/14/16 10:30
500-121429-13	1314V3-06-B05 (0-8)	Solid	12/13/16 12:25	12/14/16 10:30
500-121429-14	1314V3-06-B06 (0-4)	Solid	12/13/16 12:55	12/14/16 10:30
500-121429-15	1314V3-06-B08 (0-5)	Solid	12/13/16 13:30	12/14/16 10:30
500-121429-16	1314V3-06-B08 (5-10)	Solid	12/13/16 13:35	12/14/16 10:30
500-121429-17	1314V3-06-B07 (0-4.3)	Solid	12/13/16 13:55	12/14/16 10:30

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
2-Butanone (MEK)	<0.0039		0.0039	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1
Xylenes, Total	<0.0032		0.0032	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120	12/14/16 15:00	12/15/16 13:13	1
Dibromofluoromethane	96		75 - 120	12/14/16 15:00	12/15/16 13:13	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134	12/14/16 15:00	12/15/16 13:13	1
Toluene-d8 (Surr)	107		75 - 123	12/14/16 15:00	12/15/16 13:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Hexachlorocyclopentadiene	<0.74	F1	0.74	0.21	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4-Dinitrophenol	<0.74	F1	0.74	0.64	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Pentachlorophenol	<0.74	F2	0.74	0.59	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
4,6-Dinitro-2-methylphenol	<0.74	F1	0.74	0.29	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Phenanthrene	0.032	J	0.036	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Anthracene	0.0074	J	0.036	0.0061	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Fluoranthene	0.043		0.036	0.0068	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Pyrene	0.084	F1	0.036	0.0073	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Butyl benzyl phthalate	<0.18	F1	0.18	0.069	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Benzo[a]anthracene	0.028	J	0.036	0.0049	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.044		0.036	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
3,3'-Dichlorobenzidine	<0.18	F1	0.18	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Bis(2-ethylhexyl) phthalate	<0.18	F1	0.18	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Di-n-octyl phthalate	<0.18	F1	0.18	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Benzo[b]fluoranthene	0.067		0.036	0.0079	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Benzo[k]fluoranthene	0.015 J		0.036	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Benzo[a]pyrene	0.042		0.036	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Indeno[1,2,3-cd]pyrene	0.024 J F1		0.036	0.0095	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Dibenz(a,h)anthracene	<0.036	F1	0.036	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
Benzo[g,h,i]perylene	<0.036	F1	0.036	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		40 - 130	12/22/16 15:26	12/23/16 21:37	1
Phenol-d5	88		36 - 123	12/22/16 15:26	12/23/16 21:37	1
Nitrobenzene-d5	66		33 - 124	12/22/16 15:26	12/23/16 21:37	1
2-Fluorobiphenyl	79		42 - 115	12/22/16 15:26	12/23/16 21:37	1
2,4,6-Tribromophenol	103		25 - 130	12/22/16 15:26	12/23/16 21:37	1
Terphenyl-d14	168 X		25 - 150	12/22/16 15:26	12/23/16 21:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5 F1		0.95	0.20	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Arsenic	6.0		0.48	0.22	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Barium	62 F1		0.48	0.087	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Beryllium	0.50		0.19	0.041	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Boron	5.2 F1		2.4	0.33	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Cadmium	0.16 F1		0.095	0.028	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Calcium	47000 F2		95	31	mg/Kg	☼	12/21/16 08:24	12/22/16 18:47	10
Chromium	11 B		0.48	0.082	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Cobalt	8.4		0.24	0.054	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Copper	15 F1		0.48	0.10	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Iron	17000		9.5	3.7	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Lead	65		0.24	0.12	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Magnesium	7200 F2		4.8	1.9	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Manganese	450		0.48	0.095	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Nickel	19		0.48	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Potassium	700 F1		24	3.9	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Selenium	0.41 J F1		0.48	0.24	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Sodium	2200		48	6.3	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Vanadium	19		0.24	0.070	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1
Zinc	74 F1		0.95	0.30	mg/Kg	☼	12/21/16 08:24	12/21/16 21:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42 J		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 19:59	1
Boron	0.11 J		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 19:59	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:59	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 19:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 19:59	1
Manganese	1.9		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:59	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 19:59	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:59	1
Zinc	0.067	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 19:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 02:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 11:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 11:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.017	0.0091	mg/Kg	☼	12/20/16 07:00	12/20/16 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			12/20/16 21:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 120	12/14/16 15:00	12/15/16 13:37	1
Dibromofluoromethane	98		75 - 120	12/14/16 15:00	12/15/16 13:37	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/14/16 15:00	12/15/16 13:37	1
Toluene-d8 (Surr)	106		75 - 123	12/14/16 15:00	12/15/16 13:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.075	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Nitrobenzene	<0.034		0.034	0.0084	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Naphthalene	0.018	J	0.034	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Methylnaphthalene	0.0096	J	0.068	0.0062	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
3-Nitroaniline	<0.34		0.34	0.10	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4-Dinitrophenol	<0.68		0.68	0.60	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Acenaphthylene	0.021	J	0.034	0.0045	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Acenaphthene	0.21		0.034	0.0061	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Dibenzofuran	0.058	J	0.17	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Fluorene	0.18		0.034	0.0048	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Phenanthrene	2.3		0.034	0.0047	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Anthracene	0.72		0.034	0.0057	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Carbazole	0.26		0.17	0.085	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		40 - 130				12/22/16 15:26	12/23/16 21:08	1
Phenol-d5	93		36 - 123				12/22/16 15:26	12/23/16 21:08	1
Nitrobenzene-d5	82		33 - 124				12/22/16 15:26	12/23/16 21:08	1
2-Fluorobiphenyl	81		42 - 115				12/22/16 15:26	12/23/16 21:08	1
2,4,6-Tribromophenol	95		25 - 130				12/22/16 15:26	12/23/16 21:08	1
Terphenyl-d14	150		25 - 150				12/22/16 15:26	12/23/16 21:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	8.5		0.17	0.031	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Pyrene	9.2		0.17	0.034	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Benzo[a]anthracene	4.3		0.17	0.023	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Chrysene	3.9		0.17	0.046	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Benzo[b]fluoranthene	7.2		0.17	0.037	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Benzo[k]fluoranthene	2.3		0.17	0.050	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Benzo[a]pyrene	5.0		0.17	0.033	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Indeno[1,2,3-cd]pyrene	1.5		0.17	0.044	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Dibenz(a,h)anthracene	0.42		0.17	0.033	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5
Benzo[g,h,i]perylene	1.3		0.17	0.055	mg/Kg	☼	12/22/16 15:26	12/27/16 12:09	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	0.91	0.19	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Arsenic	2.3		0.46	0.21	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Barium	33		0.46	0.083	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Beryllium	0.22		0.18	0.039	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Boron	2.5		2.3	0.32	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Cadmium	0.098		0.091	0.026	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Calcium	86000		91	29	mg/Kg	☼	12/21/16 08:24	12/22/16 19:07	10
Chromium	5.3	B	0.46	0.078	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Cobalt	8.6		0.23	0.051	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Copper	18		0.46	0.099	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Iron	6200		9.1	3.5	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Lead	170		0.23	0.11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Magnesium	5000		4.6	1.8	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Manganese	670		0.46	0.090	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Nickel	18		0.46	0.12	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Potassium	300		23	3.7	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Selenium	0.23	J	0.46	0.23	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Sodium	260		46	6.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Vanadium	11		0.23	0.066	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1
Zinc	44		0.91	0.29	mg/Kg	☼	12/21/16 08:24	12/21/16 22:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 94.2

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Boron	0.067	J	0.50	0.050	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Iron	<0.40		0.40	0.20	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Lead	0.044		0.0075	0.0075	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Manganese	3.3		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Nickel	0.011	J	0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Silver	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:06	1
Zinc	0.068	J B	0.50	0.020	mg/L	-	12/20/16 14:37	12/21/16 20:06	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.057		0.0075	0.0075	mg/L	-	12/20/16 14:34	12/22/16 02:54	1
Manganese	0.13		0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 02:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/20/16 14:37	12/21/16 11:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/20/16 14:37	12/21/16 11:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/20/16 14:00	12/21/16 11:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.016	0.0084	mg/Kg	☼	12/20/16 07:00	12/20/16 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/20/16 21:22	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0098	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Carbon tetrachloride	<0.0023		0.0023	0.00065	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Chloromethane	<0.0056		0.0056	0.0023	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,2-Dichloroethane	<0.0056		0.0056	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,2-Dichloropropane	<0.0023		0.0023	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00079	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
2-Hexanone	<0.0056		0.0056	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Vinyl acetate	<0.0056		0.0056	0.0020	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☼	12/14/16 15:00	12/16/16 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120	12/14/16 15:00	12/16/16 12:22	1
Dibromofluoromethane	101		75 - 120	12/14/16 15:00	12/16/16 12:22	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/14/16 15:00	12/16/16 12:22	1
Toluene-d8 (Surr)	108		75 - 123	12/14/16 15:00	12/16/16 12:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Naphthalene	0.018	J	0.037	0.0057	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Methylnaphthalene	0.029	J	0.075	0.0068	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Acenaphthene	0.0094	J	0.037	0.0067	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Fluorene	0.0080	J	0.037	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Phenanthrene	0.26		0.037	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Anthracene	0.044		0.037	0.0062	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Fluoranthene	0.58		0.037	0.0069	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Pyrene	0.59		0.037	0.0074	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Benzo[a]anthracene	0.26		0.037	0.0050	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.28		0.037	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Benzo[b]fluoranthene	0.44		0.037	0.0080	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Benzo[k]fluoranthene	0.15		0.037	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Benzo[a]pyrene	0.25		0.037	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Indeno[1,2,3-cd]pyrene	0.088		0.037	0.0096	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Dibenz(a,h)anthracene	0.030	J	0.037	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
Benzo[g,h,i]perylene	0.085		0.037	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/22/16 15:26	12/23/16 19:11	1
Phenol-d5	87		36 - 123	12/22/16 15:26	12/23/16 19:11	1
Nitrobenzene-d5	74		33 - 124	12/22/16 15:26	12/23/16 19:11	1
2-Fluorobiphenyl	78		42 - 115	12/22/16 15:26	12/23/16 19:11	1
2,4,6-Tribromophenol	90		25 - 130	12/22/16 15:26	12/23/16 19:11	1
Terphenyl-d14	110		25 - 150	12/22/16 15:26	12/23/16 19:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	4.6	0.96	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Arsenic	4.1		2.3	1.1	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Barium	270		2.3	0.43	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Beryllium	2.9		0.93	0.20	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Boron	110		12	1.6	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Cadmium	<0.46		0.46	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Calcium	28000		46	15	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Chromium	21	B	2.3	0.40	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Cobalt	11		1.2	0.26	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Copper	40		2.3	0.50	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Iron	71000		46	18	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Lead	52		1.2	0.58	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Magnesium	1200		23	9.4	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Manganese	250		2.3	0.46	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Nickel	30		2.3	0.63	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Potassium	2000		120	19	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Selenium	2.4		2.3	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Silver	<1.2		1.2	0.27	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Sodium	1500		230	31	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Thallium	<2.3		2.3	1.1	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Vanadium	46		1.2	0.34	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5
Zinc	170		4.6	1.5	mg/Kg	☼	12/21/16 08:24	12/21/16 22:26	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 20:28	1
Boron	0.12	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 86.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:28	1
Cobalt	0.013	J	0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:28	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 20:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 20:28	1
Manganese	1.6		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:28	1
Nickel	0.029		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:28	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 20:28	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:28	1
Zinc	0.14	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 20:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 03:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 11:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.010	mg/Kg	☼	12/20/16 07:00	12/20/16 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/21/16 11:53	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 76.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Vinyl acetate	<0.0050		0.0050	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 120	12/14/16 15:00	12/15/16 14:26	1
Dibromofluoromethane	100		75 - 120	12/14/16 15:00	12/15/16 14:26	1
1,2-Dichloroethane-d4 (Surr)	110		69 - 134	12/14/16 15:00	12/15/16 14:26	1
Toluene-d8 (Surr)	107		75 - 123	12/14/16 15:00	12/15/16 14:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Naphthalene	0.058		0.043	0.0066	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Methylnaphthalene	0.042 J		0.087	0.0079	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Acenaphthylene	0.082		0.043	0.0057	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Acenaphthene	0.088		0.043	0.0077	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Fluorene	0.080		0.043	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Hexachlorobenzene	<0.087		0.087	0.0099	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.34	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Phenanthrene	1.4		0.043	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Anthracene	0.27		0.043	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Fluoranthene	2.2		0.043	0.0080	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Pyrene	2.2		0.043	0.0085	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Benzo[a]anthracene	1.1		0.043	0.0058	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 76.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.2		0.043	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Benzo[b]fluoranthene	1.5		0.043	0.0093	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Benzo[k]fluoranthene	0.58		0.043	0.013	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Benzo[a]pyrene	1.1		0.043	0.0083	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Indeno[1,2,3-cd]pyrene	0.41		0.043	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Dibenz(a,h)anthracene	0.11		0.043	0.0083	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
Benzo[g,h,i]perylene	0.42		0.043	0.014	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	12/22/16 15:26	12/23/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		40 - 130	12/22/16 15:26	12/23/16 17:44	1
Phenol-d5	83		36 - 123	12/22/16 15:26	12/23/16 17:44	1
Nitrobenzene-d5	69		33 - 124	12/22/16 15:26	12/23/16 17:44	1
2-Fluorobiphenyl	70		42 - 115	12/22/16 15:26	12/23/16 17:44	1
2,4,6-Tribromophenol	58		25 - 130	12/22/16 15:26	12/23/16 17:44	1
Terphenyl-d14	87		25 - 150	12/22/16 15:26	12/23/16 17:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4	J	5.4	1.1	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Arsenic	4.6		2.7	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Barium	140		2.7	0.49	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Beryllium	0.91	J	1.1	0.23	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Boron	9.2	J	13	1.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Cadmium	0.46	J	0.54	0.15	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Calcium	8500		54	17	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Chromium	17	B	2.7	0.46	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Cobalt	6.4		1.3	0.30	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Copper	220		2.7	0.58	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Iron	27000		54	21	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Lead	110		1.3	0.67	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Magnesium	2700		27	11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Manganese	280		2.7	0.53	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Nickel	20		2.7	0.73	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Potassium	1100		130	22	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Selenium	<2.7		2.7	1.3	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Silver	<1.3		1.3	0.31	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Sodium	720		270	35	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Thallium	<2.7		2.7	1.3	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Vanadium	20		1.3	0.39	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5
Zinc	190		5.4	1.7	mg/Kg	☼	12/21/16 08:24	12/21/16 22:30	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 20:35	1
Boron	0.13	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 76.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Cobalt	0.014	J	0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Iron	<0.40		0.40	0.20	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Lead	0.028		0.0075	0.0075	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Manganese	2.5		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Nickel	0.014	J	0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Silver	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 20:35	1
Zinc	0.32	J B	0.50	0.020	mg/L	-	12/20/16 14:37	12/21/16 20:35	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11		0.0075	0.0075	mg/L	-	12/20/16 14:34	12/22/16 03:07	1
Manganese	0.38		0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 03:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0091		0.0060	0.0060	mg/L	-	12/20/16 14:37	12/21/16 11:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/20/16 14:37	12/21/16 11:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.011		0.0060	0.0060	mg/L	-	12/20/16 14:34	12/21/16 15:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/20/16 14:00	12/21/16 11:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.094	0.049	mg/Kg	✱	12/20/16 07:00	12/20/16 13:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU	-		12/21/16 11:59	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 120	12/14/16 15:00	12/15/16 14:51	1
Dibromofluoromethane	95		75 - 120	12/14/16 15:00	12/15/16 14:51	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/15/16 14:51	1
Toluene-d8 (Surr)	103		75 - 123	12/14/16 15:00	12/15/16 14:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/22/16 15:26	12/23/16 14:49	1
Phenol-d5	90		36 - 123	12/22/16 15:26	12/23/16 14:49	1
Nitrobenzene-d5	82		33 - 124	12/22/16 15:26	12/23/16 14:49	1
2-Fluorobiphenyl	77		42 - 115	12/22/16 15:26	12/23/16 14:49	1
2,4,6-Tribromophenol	90		25 - 130	12/22/16 15:26	12/23/16 14:49	1
Terphenyl-d14	89		25 - 150	12/22/16 15:26	12/23/16 14:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.25	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Arsenic	6.4		0.60	0.28	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Barium	130		0.60	0.11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Beryllium	0.47		0.24	0.052	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Boron	2.4	J	3.0	0.42	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Cadmium	0.36		0.12	0.035	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Calcium	5400		12	3.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Chromium	12	B	0.60	0.10	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Cobalt	13		0.30	0.068	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Copper	8.8		0.60	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Iron	14000		12	4.6	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Lead	10		0.30	0.15	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Magnesium	4200		6.0	2.4	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Manganese	1000		0.60	0.12	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Nickel	29		0.60	0.16	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Potassium	690		30	4.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Selenium	0.39	J	0.60	0.30	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Sodium	440		60	7.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Vanadium	23		0.30	0.088	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1
Zinc	33		1.2	0.38	mg/Kg	☼	12/21/16 08:24	12/21/16 22:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 20:42	1
Boron	0.086	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 20:42	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:42	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:42	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 20:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 20:42	1
Manganese	0.32		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:42	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:42	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 20:42	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:42	1
Zinc	<0.50		0.50	0.020	mg/L		12/20/16 14:37	12/21/16 20:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 03:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.021	0.011	mg/Kg	☼	12/20/16 07:00	12/20/16 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			12/21/16 12:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120	12/14/16 15:00	12/15/16 15:16	1
Dibromofluoromethane	104		75 - 120	12/14/16 15:00	12/15/16 15:16	1
1,2-Dichloroethane-d4 (Surr)	119		69 - 134	12/14/16 15:00	12/15/16 15:16	1
Toluene-d8 (Surr)	102		75 - 123	12/14/16 15:00	12/15/16 15:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	12/22/16 15:26	12/23/16 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/22/16 15:26	12/23/16 15:18	1
Phenol-d5	76		36 - 123	12/22/16 15:26	12/23/16 15:18	1
Nitrobenzene-d5	73		33 - 124	12/22/16 15:26	12/23/16 15:18	1
2-Fluorobiphenyl	68		42 - 115	12/22/16 15:26	12/23/16 15:18	1
2,4,6-Tribromophenol	77		25 - 130	12/22/16 15:26	12/23/16 15:18	1
Terphenyl-d14	90		25 - 150	12/22/16 15:26	12/23/16 15:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.0	0.22	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Arsenic	4.2		0.52	0.24	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Barium	65		0.52	0.095	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Beryllium	0.43		0.21	0.045	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Boron	2.3	J	2.6	0.36	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Cadmium	0.098	J	0.10	0.030	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Calcium	6700		10	3.3	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Chromium	12	B	0.52	0.089	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Cobalt	5.9		0.26	0.059	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Copper	8.5		0.52	0.11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Iron	13000		10	4.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Lead	8.8		0.26	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Magnesium	4800		5.2	2.1	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Manganese	300		0.52	0.10	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Nickel	15		0.52	0.14	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Potassium	680		26	4.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Sodium	450		52	6.8	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Vanadium	16		0.26	0.076	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1
Zinc	33		1.0	0.33	mg/Kg	☼	12/21/16 08:24	12/21/16 22:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 20:49	1
Boron	0.10	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:49	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:49	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 20:49	1
Manganese	0.33		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:49	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 20:49	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:49	1
Zinc	<0.50		0.50	0.020	mg/L		12/20/16 14:37	12/21/16 20:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 03:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0095	mg/Kg	☼	12/20/16 07:00	12/20/16 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			12/21/16 12:11	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 120	12/14/16 15:00	12/15/16 15:40	1
Dibromofluoromethane	99		75 - 120	12/14/16 15:00	12/15/16 15:40	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/14/16 15:00	12/15/16 15:40	1
Toluene-d8 (Surr)	108		75 - 123	12/14/16 15:00	12/15/16 15:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Acenaphthylene	0.0072	J	0.038	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Phenanthrene	0.049		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Anthracene	0.014	J	0.038	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Fluoranthene	0.083		0.038	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Pyrene	0.084		0.038	0.0077	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Benzo[a]anthracene	0.051		0.038	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.056		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Benzo[b]fluoranthene	0.091		0.038	0.0083	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Benzo[k]fluoranthene	0.029 J		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Benzo[a]pyrene	0.058		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Indeno[1,2,3-cd]pyrene	0.025 J		0.038	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
Benzo[g,h,i]perylene	0.037 J		0.038	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		40 - 130	12/22/16 15:26	12/23/16 17:14	1
Phenol-d5	82		36 - 123	12/22/16 15:26	12/23/16 17:14	1
Nitrobenzene-d5	67		33 - 124	12/22/16 15:26	12/23/16 17:14	1
2-Fluorobiphenyl	70		42 - 115	12/22/16 15:26	12/23/16 17:14	1
2,4,6-Tribromophenol	79		25 - 130	12/22/16 15:26	12/23/16 17:14	1
Terphenyl-d14	88		25 - 150	12/22/16 15:26	12/23/16 17:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0		5.0	1.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Arsenic	10		2.5	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Barium	84		2.5	0.46	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Beryllium	1.1		1.0	0.22	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Boron	19		13	1.8	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Cadmium	1.5		0.50	0.15	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Calcium	6000		50	16	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Chromium	15 B		2.5	0.43	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Cobalt	8.0		1.3	0.29	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Copper	220		2.5	0.55	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Iron	58000		50	19	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Lead	220		1.3	0.63	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Magnesium	1200		25	10	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Manganese	580		2.5	0.50	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Nickel	22		2.5	0.68	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Potassium	700		130	21	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Selenium	1.4 J		2.5	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Silver	<1.3		1.3	0.30	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Sodium	210 J		250	33	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Thallium	<2.5		2.5	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Vanadium	28		1.3	0.37	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5
Zinc	700		5.0	1.6	mg/Kg	☼	12/21/16 08:24	12/21/16 22:43	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29 J		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 20:55	1
Boron	0.081 J		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 20:55	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:55	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:55	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 20:55	1
Lead	0.011		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 20:55	1
Manganese	0.16		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:55	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:55	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 20:55	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 20:55	1
Zinc	0.35	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 20:55	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.088		0.0075	0.0075	mg/L		12/20/16 14:34	12/22/16 03:44	1
Manganese	0.19		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 03:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.019	0.010	mg/Kg	☼	12/20/16 07:00	12/20/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/21/16 12:17	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 120	12/14/16 15:00	12/15/16 16:05	1
Dibromofluoromethane	97		75 - 120	12/14/16 15:00	12/15/16 16:05	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/15/16 16:05	1
Toluene-d8 (Surr)	104		75 - 123	12/14/16 15:00	12/15/16 16:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130	12/22/16 15:26	12/23/16 15:47	1
Phenol-d5	81		36 - 123	12/22/16 15:26	12/23/16 15:47	1
Nitrobenzene-d5	69		33 - 124	12/22/16 15:26	12/23/16 15:47	1
2-Fluorobiphenyl	70		42 - 115	12/22/16 15:26	12/23/16 15:47	1
2,4,6-Tribromophenol	72		25 - 130	12/22/16 15:26	12/23/16 15:47	1
Terphenyl-d14	87		25 - 150	12/22/16 15:26	12/23/16 15:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	0.98	0.20	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Arsenic	4.3		0.49	0.23	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Barium	45		0.49	0.090	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Beryllium	0.38		0.20	0.043	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Boron	2.0	J	2.5	0.34	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Cadmium	0.089	J	0.098	0.028	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Calcium	8300		9.8	3.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Chromium	9.7	B	0.49	0.085	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Cobalt	7.4		0.25	0.056	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Copper	7.6		0.49	0.11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Iron	10000		9.8	3.8	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Lead	7.2		0.25	0.12	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Magnesium	5000		4.9	2.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Manganese	330		0.49	0.097	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Nickel	16		0.49	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Potassium	610		25	4.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Sodium	130		49	6.5	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Vanadium	16		0.25	0.072	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1
Zinc	27		0.98	0.31	mg/Kg	☼	12/21/16 08:24	12/21/16 22:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:02	1
Boron	0.064	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 21:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:02	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:02	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 21:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 21:02	1
Manganese	0.41		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:02	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:02	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 21:02	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:02	1
Zinc	<0.50		0.50	0.020	mg/L		12/20/16 14:37	12/21/16 21:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 03:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0090	mg/Kg	☼	12/20/16 07:00	12/20/16 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			12/21/16 12:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 120	12/14/16 15:00	12/15/16 16:30	1
Dibromofluoromethane	99		75 - 120	12/14/16 15:00	12/15/16 16:30	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/14/16 15:00	12/15/16 16:30	1
Toluene-d8 (Surr)	107		75 - 123	12/14/16 15:00	12/15/16 16:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Naphthalene	0.016	J	0.038	0.0058	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Methylnaphthalene	0.014	J	0.076	0.0069	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Phenanthrene	0.089		0.038	0.0053	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Anthracene	0.014	J	0.038	0.0063	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Fluoranthene	0.16		0.038	0.0070	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Pyrene	0.44		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.038	0.010	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Benzo[b]fluoranthene	0.31		0.038	0.0081	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Benzo[k]fluoranthene	0.094		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Benzo[a]pyrene	0.21		0.038	0.0073	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Indeno[1,2,3-cd]pyrene	0.17		0.038	0.0098	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Dibenz(a,h)anthracene	0.047		0.038	0.0073	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
Benzo[g,h,i]perylene	0.21		0.038	0.012	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/27/16 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/22/16 15:26	12/27/16 19:12	1
Phenol-d5	109		36 - 123	12/22/16 15:26	12/27/16 19:12	1
Nitrobenzene-d5	93		33 - 124	12/22/16 15:26	12/27/16 19:12	1
2-Fluorobiphenyl	89		42 - 115	12/22/16 15:26	12/27/16 19:12	1
2,4,6-Tribromophenol	82		25 - 130	12/22/16 15:26	12/27/16 19:12	1
Terphenyl-d14	219	X	25 - 150	12/22/16 15:26	12/27/16 19:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	18		4.9	1.0	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Arsenic	32		2.4	1.1	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Barium	110		2.4	0.45	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Beryllium	1.5		0.98	0.21	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Boron	36		12	1.7	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Cadmium	0.44	J	0.49	0.14	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Calcium	57000		49	16	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Chromium	24	B	2.4	0.42	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Cobalt	19		1.2	0.28	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Copper	1000		2.4	0.53	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Iron	150000		49	19	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Lead	690		1.2	0.61	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Magnesium	4100		24	9.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Manganese	830		2.4	0.48	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Nickel	40		2.4	0.66	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Potassium	860		120	20	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Selenium	2.6		2.4	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Silver	0.65	J	1.2	0.29	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Sodium	900		240	32	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Thallium	<2.4		2.4	1.2	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Vanadium	51		1.2	0.36	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5
Zinc	670		4.9	1.5	mg/Kg	☼	12/21/16 08:24	12/21/16 22:52	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:09	1
Boron	0.097	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 87.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0046	J	0.0050	0.0020	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Cobalt	0.030		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Iron	<0.40		0.40	0.20	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Lead	0.12		0.0075	0.0075	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Manganese	3.9		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Nickel	0.034		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Silver	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:09	1
Zinc	0.54	B	0.50	0.020	mg/L	-	12/20/16 14:37	12/21/16 21:09	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.043		0.0075	0.0075	mg/L	-	12/20/16 14:34	12/22/16 03:57	1
Manganese	0.034		0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 03:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.032		0.0060	0.0060	mg/L	-	12/20/16 14:37	12/21/16 12:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/20/16 14:37	12/21/16 12:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.019		0.0060	0.0060	mg/L	-	12/20/16 14:34	12/21/16 15:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/20/16 14:00	12/21/16 11:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.017	0.0087	mg/Kg	☼	12/20/16 07:00	12/20/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		12/21/16 12:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Carbon disulfide	<0.0044		0.0044	0.00093	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Methylene Chloride	<0.0044		0.0044	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 120	12/14/16 15:00	12/15/16 16:55	1
Dibromofluoromethane	99		75 - 120	12/14/16 15:00	12/15/16 16:55	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/15/16 16:55	1
Toluene-d8 (Surr)	104		75 - 123	12/14/16 15:00	12/15/16 16:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130	12/22/16 15:26	12/23/16 16:16	1
Phenol-d5	79		36 - 123	12/22/16 15:26	12/23/16 16:16	1
Nitrobenzene-d5	65		33 - 124	12/22/16 15:26	12/23/16 16:16	1
2-Fluorobiphenyl	66		42 - 115	12/22/16 15:26	12/23/16 16:16	1
2,4,6-Tribromophenol	78		25 - 130	12/22/16 15:26	12/23/16 16:16	1
Terphenyl-d14	86		25 - 150	12/22/16 15:26	12/23/16 16:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.25	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Arsenic	4.2		0.60	0.28	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Barium	54		0.60	0.11	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Beryllium	0.40		0.24	0.052	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Boron	2.7	J	3.0	0.42	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Cadmium	0.077	J	0.12	0.035	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Calcium	2700		12	3.8	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Chromium	12	B	0.60	0.10	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Cobalt	6.4		0.30	0.067	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Copper	8.7		0.60	0.13	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Iron	12000		12	4.6	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Lead	7.8		0.30	0.15	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Magnesium	1800		6.0	2.4	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Manganese	280		0.60	0.12	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Nickel	14		0.60	0.16	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Potassium	810		30	4.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Selenium	0.32	J	0.60	0.30	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Sodium	180		60	7.9	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Vanadium	20		0.30	0.087	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1
Zinc	29		1.2	0.38	mg/Kg	☼	12/21/16 08:24	12/21/16 22:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:16	1
Boron	0.12	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 21:16	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:16	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:16	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 21:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 21:16	1
Manganese	0.40		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:16	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:16	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 21:16	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:16	1
Zinc	<0.50		0.50	0.020	mg/L		12/20/16 14:37	12/21/16 21:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.039		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 04:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.011	mg/Kg	☼	12/20/16 07:00	12/20/16 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/21/16 12:35	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120	12/14/16 15:00	12/15/16 17:20	1
Dibromofluoromethane	97		75 - 120	12/14/16 15:00	12/15/16 17:20	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/14/16 15:00	12/15/16 17:20	1
Toluene-d8 (Surr)	104		75 - 123	12/14/16 15:00	12/15/16 17:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Naphthalene	0.017	J	0.036	0.0056	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Methylnaphthalene	0.020	J	0.074	0.0067	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Acenaphthylene	0.011	J	0.036	0.0048	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Acenaphthene	0.019	J	0.036	0.0066	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Fluorene	0.015	J	0.036	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Phenanthrene	0.28		0.036	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Anthracene	0.057		0.036	0.0061	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Fluoranthene	0.51		0.036	0.0068	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Pyrene	0.45		0.036	0.0073	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Benzo[a]anthracene	0.23		0.036	0.0049	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.25		0.036	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Benzo[b]fluoranthene	0.40		0.036	0.0079	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Benzo[a]pyrene	0.24		0.036	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Indeno[1,2,3-cd]pyrene	0.099		0.036	0.0095	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Dibenz(a,h)anthracene	0.030	J	0.036	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Benzo[g,h,i]perylene	0.096		0.036	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		40 - 130				12/22/16 15:26	12/23/16 18:13	1
Phenol-d5	87		36 - 123				12/22/16 15:26	12/23/16 18:13	1
Nitrobenzene-d5	75		33 - 124				12/22/16 15:26	12/23/16 18:13	1
2-Fluorobiphenyl	76		42 - 115				12/22/16 15:26	12/23/16 18:13	1
2,4,6-Tribromophenol	88		25 - 130				12/22/16 15:26	12/23/16 18:13	1
Terphenyl-d14	100		25 - 150				12/22/16 15:26	12/23/16 18:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018	0.0064	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1221	<0.018		0.018	0.0080	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1232	<0.018		0.018	0.0079	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1242	<0.018		0.018	0.0060	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1248	<0.018		0.018	0.0072	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1254	0.039		0.018	0.0039	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
PCB-1260	0.021		0.018	0.0089	mg/Kg	☼	12/14/16 16:07	12/15/16 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		41 - 124				12/14/16 16:07	12/15/16 10:43	1
DCB Decachlorobiphenyl	101		47 - 127				12/14/16 16:07	12/15/16 10:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Arsenic	4.3		0.53	0.24	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Barium	73		0.53	0.096	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Beryllium	0.41		0.21	0.046	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Boron	4.4		2.6	0.37	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Cadmium	0.42		0.11	0.030	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Calcium	43000		53	17	mg/Kg	☼	12/21/16 08:24	12/22/16 19:15	5
Chromium	16	B	0.53	0.091	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Cobalt	7.1		0.26	0.059	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Copper	15		0.53	0.11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Iron	13000		11	4.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Lead	83		0.26	0.13	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Magnesium	13000		5.3	2.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Manganese	390		0.53	0.10	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	17		0.53	0.14	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Potassium	610		26	4.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Sodium	160		53	6.9	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Vanadium	18		0.26	0.077	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1
Zinc	98		1.1	0.33	mg/Kg	☼	12/21/16 08:24	12/22/16 19:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:23	1
Boron	0.062	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 21:23	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:23	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:23	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 21:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 21:23	1
Manganese	1.6		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:23	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:23	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 21:23	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:23	1
Zinc	0.042	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 21:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 04:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.016	0.0084	mg/Kg	☼	12/20/16 07:00	12/20/16 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			12/21/16 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
2-Hexanone	<0.0046		0.0046	0.0015	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129	X	70 - 120	12/14/16 15:00	12/15/16 17:45	1
Dibromofluoromethane	97		75 - 120	12/14/16 15:00	12/15/16 17:45	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/15/16 17:45	1
Toluene-d8 (Surr)	114		75 - 123	12/14/16 15:00	12/15/16 17:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.95		0.95	0.42	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Bis(2-chloroethyl)ether	<0.95		0.95	0.28	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
1,3-Dichlorobenzene	<0.95		0.95	0.21	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
1,4-Dichlorobenzene	<0.95		0.95	0.24	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.95		0.95	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Methylphenol	<0.95		0.95	0.30	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,2'-oxybis[1-chloropropane]	<0.95		0.95	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
N-Nitrosodi-n-propylamine	<0.38		0.38	0.23	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Hexachloroethane	<0.95		0.95	0.29	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Chlorophenol	<0.95		0.95	0.32	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Nitrobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Bis(2-chloroethoxy)methane	<0.95		0.95	0.19	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
1,2,4-Trichlorobenzene	<0.95		0.95	0.20	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Isophorone	<0.95		0.95	0.21	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4-Dimethylphenol	<1.9		1.9	0.71	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Hexachlorobutadiene	<0.95		0.95	0.30	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Naphthalene	0.48		0.19	0.029	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4-Dichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Chloroaniline	<3.8		3.8	0.88	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4,6-Trichlorophenol	<1.9		1.9	0.65	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4,5-Trichlorophenol	<1.9		1.9	0.43	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Hexachlorocyclopentadiene	<3.8		3.8	1.1	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Methylnaphthalene	0.66		0.38	0.035	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Nitroaniline	<0.95		0.95	0.25	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Chloronaphthalene	<0.95		0.95	0.21	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Chloro-3-methylphenol	<1.9		1.9	0.64	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,6-Dinitrotoluene	<0.95		0.95	0.37	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2-Nitrophenol	<1.9		1.9	0.44	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
3-Nitroaniline	<1.9		1.9	0.58	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Dimethyl phthalate	<0.95		0.95	0.25	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4-Dinitrophenol	<3.8		3.8	3.3	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Acenaphthylene	0.030 J		0.19	0.025	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
2,4-Dinitrotoluene	<0.95		0.95	0.30	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Acenaphthene	0.042 J		0.19	0.034	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Dibenzofuran	0.23 J		0.95	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Nitrophenol	<3.8		3.8	1.8	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Fluorene	0.028 J		0.19	0.026	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Nitroaniline	<1.9		1.9	0.79	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Bromophenyl phenyl ether	<0.95		0.95	0.25	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Hexachlorobenzene	<0.38		0.38	0.044	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Diethyl phthalate	<0.95		0.95	0.32	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4-Chlorophenyl phenyl ether	<0.95		0.95	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Pentachlorophenol	<3.8		3.8	3.0	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
N-Nitrosodiphenylamine	<0.95		0.95	0.22	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
4,6-Dinitro-2-methylphenol	<3.8		3.8	1.5	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Phenanthrene	0.85		0.19	0.026	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Anthracene	0.074 J		0.19	0.031	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Carbazole	<0.95		0.95	0.47	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Di-n-butyl phthalate	<0.95		0.95	0.29	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Fluoranthene	0.68		0.19	0.035	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Pyrene	1.2		0.19	0.037	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Butyl benzyl phthalate	<0.95		0.95	0.36	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Benzo[a]anthracene	0.50		0.19	0.025	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.58		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
3,3'-Dichlorobenzidine	<0.95		0.95	0.26	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Bis(2-ethylhexyl) phthalate	<0.95		0.95	0.34	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Di-n-octyl phthalate	<0.95		0.95	0.31	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Benzo[b]fluoranthene	1.2		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Benzo[k]fluoranthene	0.40		0.19	0.055	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Benzo[a]pyrene	0.73		0.19	0.036	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Indeno[1,2,3-cd]pyrene	0.34		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Dibenz(a,h)anthracene	0.069	J	0.19	0.036	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
Benzo[g,h,i]perylene	0.29		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5
3 & 4 Methylphenol	<0.95		0.95	0.31	mg/Kg	☼	12/22/16 15:26	12/27/16 17:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111		40 - 130	12/22/16 15:26	12/27/16 17:32	5
Phenol-d5	121		36 - 123	12/22/16 15:26	12/27/16 17:32	5
Nitrobenzene-d5	109		33 - 124	12/22/16 15:26	12/27/16 17:32	5
2-Fluorobiphenyl	102		42 - 115	12/22/16 15:26	12/27/16 17:32	5
2,4,6-Tribromophenol	83		25 - 130	12/22/16 15:26	12/27/16 17:32	5
Terphenyl-d14	210	X	25 - 150	12/22/16 15:26	12/27/16 17:32	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.5		5.5	1.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Arsenic	5.7		2.8	1.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Barium	60		2.8	0.51	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Beryllium	0.53	J	1.1	0.24	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Boron	6.5	J	14	1.9	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Cadmium	0.44	J	0.55	0.16	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Calcium	23000		55	18	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Chromium	21	B	2.8	0.48	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Cobalt	3.3		1.4	0.31	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Copper	20		2.8	0.60	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Iron	17000		55	21	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Lead	39		1.4	0.69	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Magnesium	4000		28	11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Manganese	440		2.8	0.55	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Nickel	49		2.8	0.75	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Potassium	610		140	23	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Selenium	<2.8		2.8	1.4	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Silver	0.81	J	1.4	0.32	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Sodium	140	J	280	36	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Vanadium	45		1.4	0.40	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5
Zinc	72		5.5	1.7	mg/Kg	☼	12/21/16 08:24	12/22/16 19:19	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:29	1
Boron	0.061	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 21:29	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:29	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:29	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 21:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 21:29	1
Manganese	0.92		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:29	1
Nickel	0.050		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:29	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 21:29	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:29	1
Zinc	0.13	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 21:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 04:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.017	0.0090	mg/Kg	☼	12/20/16 07:00	12/20/16 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/21/16 12:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/14/16 15:00	12/15/16 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 120	12/14/16 15:00	12/15/16 18:10	1
Dibromofluoromethane	99		75 - 120	12/14/16 15:00	12/15/16 18:10	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/14/16 15:00	12/15/16 18:10	1
Toluene-d8 (Surr)	109		75 - 123	12/14/16 15:00	12/15/16 18:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Naphthalene	0.097		0.038	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Methylnaphthalene	0.12		0.078	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Fluorene	0.0075 J		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Phenanthrene	0.13		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Anthracene	0.0073 J		0.038	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Fluoranthene	0.096		0.038	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Pyrene	0.072		0.038	0.0077	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Benzo[a]anthracene	0.052		0.038	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.083		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Benzo[b]fluoranthene	0.12		0.038	0.0084	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Benzo[k]fluoranthene	0.037 J		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Benzo[a]pyrene	0.067		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Dibenz(a,h)anthracene	0.016 J		0.038	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
Benzo[g,h,i]perylene	0.049		0.038	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		40 - 130	12/22/16 15:26	12/23/16 16:45	1
Phenol-d5	75		36 - 123	12/22/16 15:26	12/23/16 16:45	1
Nitrobenzene-d5	60		33 - 124	12/22/16 15:26	12/23/16 16:45	1
2-Fluorobiphenyl	66		42 - 115	12/22/16 15:26	12/23/16 16:45	1
2,4,6-Tribromophenol	92		25 - 130	12/22/16 15:26	12/23/16 16:45	1
Terphenyl-d14	86		25 - 150	12/22/16 15:26	12/23/16 16:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019	0.0068	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1221	<0.019		0.019	0.0085	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1232	<0.019		0.019	0.0084	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1242	<0.019		0.019	0.0063	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1248	<0.019		0.019	0.0076	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1254	<0.019		0.019	0.0042	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1
PCB-1260	<0.019		0.019	0.0094	mg/Kg	☼	12/14/16 16:07	12/15/16 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		41 - 124	12/14/16 16:07	12/15/16 12:31	1
DCB Decachlorobiphenyl	75		47 - 127	12/14/16 16:07	12/15/16 12:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.20	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Arsenic	2.4		0.49	0.23	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Barium	75		0.49	0.090	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Beryllium	0.41		0.20	0.043	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Boron	5.6		2.5	0.34	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Cadmium	0.26		0.099	0.029	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Calcium	3800		9.9	3.2	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Chromium	13 B		0.49	0.085	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Cobalt	6.1		0.25	0.056	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Copper	14		0.49	0.11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Iron	11000		9.9	3.8	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Lead	16		0.25	0.12	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Magnesium	1300		4.9	2.0	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Manganese	410		0.49	0.098	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	23		0.49	0.13	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Potassium	1200		25	4.0	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Sodium	120		49	6.5	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Vanadium	15		0.25	0.072	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1
Zinc	66		0.99	0.31	mg/Kg	☼	12/21/16 08:24	12/22/16 19:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:52	1
Boron	0.17	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 21:52	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:52	1
Cobalt	0.034		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:52	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 21:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 21:52	1
Manganese	10		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:52	1
Nickel	0.030		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:52	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 21:52	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 21:52	1
Zinc	0.21	J B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 21:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 04:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.017	0.0090	mg/Kg	☼	12/20/16 07:00	12/20/16 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/21/16 13:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/14/16 15:00	12/16/16 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130	X	70 - 120	12/14/16 15:00	12/16/16 12:48	1
Dibromofluoromethane	101		75 - 120	12/14/16 15:00	12/16/16 12:48	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/16/16 12:48	1
Toluene-d8 (Surr)	114		75 - 123	12/14/16 15:00	12/16/16 12:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Naphthalene	0.21		0.038	0.0059	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Methylnaphthalene	0.36		0.077	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Acenaphthylene	0.0096 J		0.038	0.0050	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Acenaphthene	0.020 J		0.038	0.0069	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Dibenzofuran	0.17 J		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Fluorene	0.016 J		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Phenanthrene	0.35		0.038	0.0053	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Anthracene	0.040		0.038	0.0064	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Fluoranthene	0.35		0.038	0.0071	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Pyrene	0.41		0.038	0.0076	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Benzo[a]anthracene	0.22		0.038	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.29		0.038	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Benzo[b]fluoranthene	0.58		0.038	0.0083	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Benzo[k]fluoranthene	0.21		0.038	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Benzo[a]pyrene	0.34		0.038	0.0074	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.0099	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Dibenz(a,h)anthracene	0.047		0.038	0.0074	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1
3 & 4 Methylphenol	0.47		0.19	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		40 - 130	12/22/16 15:26	12/23/16 18:42	1
Phenol-d5	87		36 - 123	12/22/16 15:26	12/23/16 18:42	1
Nitrobenzene-d5	73		33 - 124	12/22/16 15:26	12/23/16 18:42	1
2-Fluorobiphenyl	72		42 - 115	12/22/16 15:26	12/23/16 18:42	1
2,4,6-Tribromophenol	76		25 - 130	12/22/16 15:26	12/23/16 18:42	1
Terphenyl-d14	115		25 - 150	12/22/16 15:26	12/23/16 18:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.23	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Arsenic	5.6		0.56	0.26	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Barium	61		0.56	0.10	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Beryllium	0.30		0.22	0.048	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Boron	5.6		2.8	0.39	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Cadmium	1.4		0.11	0.032	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Calcium	27000		11	3.6	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Chromium	42	B	0.56	0.096	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Cobalt	3.9		0.28	0.063	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Copper	86		0.56	0.12	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Iron	29000		11	4.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Lead	230		0.28	0.14	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Magnesium	3800		5.6	2.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Manganese	510		0.56	0.11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Nickel	68		0.56	0.15	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Potassium	550		28	4.5	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Silver	0.46		0.28	0.065	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Sodium	160		56	7.4	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Vanadium	11		0.28	0.081	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1
Zinc	200		1.1	0.35	mg/Kg	☼	12/21/16 08:24	12/22/16 19:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 21:59	1
Boron	0.14	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 21:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Iron	<0.40		0.40	0.20	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Manganese	0.24		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Nickel	0.017	J	0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Silver	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 21:59	1
Zinc	0.076	J B	0.50	0.020	mg/L	-	12/20/16 14:37	12/21/16 21:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.013	J	0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 04:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/20/16 14:37	12/21/16 12:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/20/16 14:37	12/21/16 12:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/20/16 14:00	12/21/16 12:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.020	0.010	mg/Kg	☼	12/20/16 07:00	12/20/16 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU	-		12/21/16 13:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Methylene Chloride	<0.0044		0.0044	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/14/16 15:00	12/16/16 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 120	12/14/16 15:00	12/16/16 13:14	1
Dibromofluoromethane	95		75 - 120	12/14/16 15:00	12/16/16 13:14	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	12/14/16 15:00	12/16/16 13:14	1
Toluene-d8 (Surr)	106		75 - 123	12/14/16 15:00	12/16/16 13:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Naphthalene	0.36		0.035	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Methylnaphthalene	0.42		0.071	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Acenaphthylene	0.033 J		0.035	0.0047	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Acenaphthene	0.22		0.035	0.0064	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Dibenzofuran	0.37		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Fluorene	0.22		0.035	0.0050	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Phenanthrene	1.4		0.035	0.0049	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Anthracene	0.42		0.035	0.0059	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Carbazole	0.18		0.18	0.089	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Fluoranthene	1.5		0.035	0.0066	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Pyrene	1.6		0.035	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Benzo[a]anthracene	0.64		0.035	0.0048	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.66		0.035	0.0097	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		40 - 130	12/22/16 15:26	12/23/16 19:40	1
Phenol-d5	90		36 - 123	12/22/16 15:26	12/23/16 19:40	1
Nitrobenzene-d5	76		33 - 124	12/22/16 15:26	12/23/16 19:40	1
2-Fluorobiphenyl	76		42 - 115	12/22/16 15:26	12/23/16 19:40	1
2,4,6-Tribromophenol	88		25 - 130	12/22/16 15:26	12/23/16 19:40	1
Terphenyl-d14	132		25 - 150	12/22/16 15:26	12/23/16 19:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	1.2		0.18	0.038	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5
Benzo[k]fluoranthene	0.50		0.18	0.052	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5
Benzo[a]pyrene	0.81		0.18	0.034	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5
Indeno[1,2,3-cd]pyrene	0.35		0.18	0.046	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5
Dibenz(a,h)anthracene	0.11	J	0.18	0.034	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5
Benzo[g,h,i]perylene	0.25		0.18	0.057	mg/Kg	☼	12/22/16 15:26	12/27/16 11:19	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.22	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Arsenic	4.2		0.53	0.24	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Barium	52		0.53	0.097	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Beryllium	0.27		0.21	0.046	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Boron	3.1		2.6	0.37	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Cadmium	1.1		0.11	0.031	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Calcium	17000		11	3.4	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Chromium	24	B	0.53	0.091	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Cobalt	4.0		0.26	0.060	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Copper	59		0.53	0.11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Iron	19000		11	4.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Lead	110		0.26	0.13	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Magnesium	3700		5.3	2.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Manganese	570		0.53	0.10	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Nickel	62		0.53	0.14	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Potassium	320		26	4.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Silver	0.25	J	0.26	0.062	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Sodium	90		53	7.0	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Vanadium	12		0.26	0.077	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1
Zinc	160		1.1	0.33	mg/Kg	☼	12/21/16 08:24	12/22/16 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 91.6

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Boron	0.052	J	0.50	0.050	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Cadmium	0.017		0.0050	0.0020	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Cobalt	0.016	J	0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Iron	<0.40		0.40	0.20	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Manganese	6.5		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Nickel	0.22		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Silver	<0.025		0.025	0.010	mg/L	-	12/20/16 14:37	12/21/16 22:05	1
Zinc	0.22	J B	0.50	0.020	mg/L	-	12/20/16 14:37	12/21/16 22:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/20/16 14:34	12/22/16 04:54	1
Manganese	0.57		0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 04:54	1
Nickel	0.079		0.025	0.010	mg/L	-	12/20/16 14:34	12/22/16 04:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/20/16 14:37	12/21/16 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/20/16 14:37	12/21/16 12:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/20/16 14:00	12/21/16 12:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.016	0.0085	mg/Kg	☼	12/20/16 07:00	12/20/16 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/21/16 13:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 120	12/14/16 15:00	12/16/16 13:38	1
Dibromofluoromethane	100		75 - 120	12/14/16 15:00	12/16/16 13:38	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 134	12/14/16 15:00	12/16/16 13:38	1
Toluene-d8 (Surr)	107		75 - 123	12/14/16 15:00	12/16/16 13:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Naphthalene	0.033	J	0.039	0.0060	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Methylnaphthalene	0.17		0.079	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Acenaphthylene	0.015	J	0.039	0.0051	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Fluorene	0.0088	J	0.039	0.0055	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Nitroaniline	0.27	J	0.39	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Phenanthrene	0.18		0.039	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Anthracene	0.040		0.039	0.0065	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Fluoranthene	0.19		0.039	0.0072	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Pyrene	0.25		0.039	0.0077	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Benzo[a]anthracene	0.12		0.039	0.0052	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13		0.039	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Benzo[b]fluoranthene	0.22		0.039	0.0084	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Benzo[k]fluoranthene	0.082		0.039	0.011	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Benzo[a]pyrene	0.13		0.039	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Indeno[1,2,3-cd]pyrene	0.048		0.039	0.010	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
Benzo[g,h,i]perylene	0.047		0.039	0.013	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		40 - 130	12/22/16 15:26	12/23/16 20:10	1
Phenol-d5	86		36 - 123	12/22/16 15:26	12/23/16 20:10	1
Nitrobenzene-d5	70		33 - 124	12/22/16 15:26	12/23/16 20:10	1
2-Fluorobiphenyl	73		42 - 115	12/22/16 15:26	12/23/16 20:10	1
2,4,6-Tribromophenol	97		25 - 130	12/22/16 15:26	12/23/16 20:10	1
Terphenyl-d14	126		25 - 150	12/22/16 15:26	12/23/16 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.96	J	1.2	0.25	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Arsenic	8.8		0.60	0.28	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Barium	380		0.60	0.11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Beryllium	0.66		0.24	0.052	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Boron	18		3.0	0.42	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Cadmium	12		0.12	0.035	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Calcium	12000		12	3.9	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Chromium	40	B	0.60	0.10	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Cobalt	7.2		0.30	0.068	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Copper	35		0.60	0.13	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Iron	36000		12	4.7	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Lead	570		0.30	0.15	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Magnesium	4000		6.0	2.5	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Manganese	450		0.60	0.12	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Nickel	38		0.60	0.16	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Potassium	870		30	4.9	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Silver	0.20	J	0.30	0.071	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Sodium	200		60	8.0	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Vanadium	19		0.30	0.088	mg/Kg	☼	12/21/16 08:24	12/22/16 19:43	1
Zinc	2100		6.0	1.9	mg/Kg	☼	12/21/16 08:24	12/23/16 12:54	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 22:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 22:12	1
Boron	0.13	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 81.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.10		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 22:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:12	1
Cobalt	0.026		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:12	1
Iron	0.60		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 22:12	1
Lead	0.72		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 22:12	1
Manganese	4.7		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:12	1
Nickel	0.061		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 22:12	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:12	1
Zinc	12	B	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 22:12	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L		12/20/16 14:34	12/22/16 05:00	1
Lead	0.25		0.0075	0.0075	mg/L		12/20/16 14:34	12/22/16 05:00	1
Manganese	0.13		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 05:00	1
Zinc	0.52		0.10	0.020	mg/L		12/20/16 14:34	12/22/16 05:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 12:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.020	0.011	mg/Kg	☼	12/20/16 07:00	12/20/16 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/21/16 13:18	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/14/16 15:00	12/16/16 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 120	12/14/16 15:00	12/16/16 14:04	1
Dibromofluoromethane	99		75 - 120	12/14/16 15:00	12/16/16 14:04	1
1,2-Dichloroethane-d4 (Surr)	113		69 - 134	12/14/16 15:00	12/16/16 14:04	1
Toluene-d8 (Surr)	105		75 - 123	12/14/16 15:00	12/16/16 14:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Naphthalene	0.95		0.038	0.0059	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Methylnaphthalene	0.43		0.077	0.0070	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Acenaphthylene	0.046		0.038	0.0050	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Acenaphthene	0.75		0.038	0.0069	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Dibenzofuran	0.42		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Fluorene	0.61		0.038	0.0054	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Anthracene	1.1		0.038	0.0064	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Carbazole	0.71		0.19	0.095	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/22/16 15:26	12/23/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130	12/22/16 15:26	12/23/16 20:39	1
Phenol-d5	85		36 - 123	12/22/16 15:26	12/23/16 20:39	1
Nitrobenzene-d5	70		33 - 124	12/22/16 15:26	12/23/16 20:39	1
2-Fluorobiphenyl	69		42 - 115	12/22/16 15:26	12/23/16 20:39	1
2,4,6-Tribromophenol	72		25 - 130	12/22/16 15:26	12/23/16 20:39	1
Terphenyl-d14	124		25 - 150	12/22/16 15:26	12/23/16 20:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	5.9		0.19	0.027	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Fluoranthene	7.0		0.19	0.035	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Pyrene	6.7		0.19	0.038	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Benzo[a]anthracene	3.2		0.19	0.026	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Chrysene	2.9		0.19	0.052	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Benzo[b]fluoranthene	4.4		0.19	0.041	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Benzo[k]fluoranthene	1.8		0.19	0.056	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Benzo[a]pyrene	3.5		0.19	0.037	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Indeno[1,2,3-cd]pyrene	1.0		0.19	0.049	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Dibenz(a,h)anthracene	0.36		0.19	0.037	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5
Benzo[g,h,i]perylene	0.94		0.19	0.061	mg/Kg	☼	12/22/16 15:26	12/27/16 11:44	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.3		5.3	1.1	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Arsenic	4.0		2.7	1.2	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Barium	90		2.7	0.49	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Beryllium	0.80	J	1.1	0.23	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Boron	11	J	13	1.9	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Cadmium	1.2		0.53	0.15	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Calcium	6200		53	17	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Chromium	35	B	2.7	0.46	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Cobalt	5.7		1.3	0.30	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Copper	21		2.7	0.58	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Iron	78000		53	20	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Lead	46		1.3	0.66	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Magnesium	1600		27	11	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Manganese	440		2.7	0.53	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Nickel	25		2.7	0.72	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Potassium	620		130	22	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Selenium	<2.7		2.7	1.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Silver	0.36	J	1.3	0.31	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Sodium	93	J	270	35	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Thallium	<2.7		2.7	1.3	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Vanadium	24		1.3	0.39	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5
Zinc	250		5.3	1.7	mg/Kg	☼	12/21/16 08:24	12/22/16 19:47	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 22:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 22:19	1
Boron	0.050	J	0.50	0.050	mg/L		12/20/16 14:37	12/21/16 22:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.016		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 22:19	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:19	1
Cobalt	0.016	J	0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:19	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 22:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 22:19	1
Manganese	6.2		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:19	1
Nickel	0.21	F1	0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:19	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 22:19	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 22:19	1
Zinc	0.22	J B F1	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 22:19	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:34	12/22/16 05:07	1
Manganese	0.26		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 05:07	1
Nickel	0.015	J	0.025	0.010	mg/L		12/20/16 14:34	12/22/16 05:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 12:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 12:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.018	0.0093	mg/Kg	☼	12/20/16 07:00	12/20/16 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/21/16 13:24	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

GC/MS VOA

Analysis Batch: 365218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	8260B	365249
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	8260B	365249
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	8260B	365249
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	8260B	365249
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	8260B	365249
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	8260B	365249
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	8260B	365249
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	8260B	365249
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	8260B	365249
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	8260B	365249
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	8260B	365249
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	8260B	365249
MB 500-365218/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-365218/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365218/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 365249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	5035	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	5035	
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	5035	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	5035	
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	5035	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	5035	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	5035	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	5035	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	5035	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	5035	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	5035	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	5035	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	5035	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	5035	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	5035	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	5035	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	5035	

Analysis Batch: 365428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	8260B	365249
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	8260B	365249
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	8260B	365249
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	8260B	365249
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	8260B	365249
MB 500-365428/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-365428/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365428/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

GC/MS Semi VOA

Prep Batch: 366393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	3541	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	3541	
500-121429-2 - DL	1314V3-24-B10 (0-5)	Total/NA	Solid	3541	
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	3541	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	3541	
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	3541	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	3541	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	3541	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	3541	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	3541	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	3541	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	3541	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	3541	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	3541	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	3541	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	3541	
500-121429-15 - DL	1314V3-06-B08 (0-5)	Total/NA	Solid	3541	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	3541	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	3541	
500-121429-17 - DL	1314V3-06-B07 (0-4.3)	Total/NA	Solid	3541	
MB 500-366393/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-366393/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	3541	
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	3541	

Analysis Batch: 366484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	8270D	366393
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	8270D	366393
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	8270D	366393
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	8270D	366393
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	8270D	366393
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	8270D	366393
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	8270D	366393
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	8270D	366393
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	8270D	366393
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	8270D	366393
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	8270D	366393
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	8270D	366393
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	8270D	366393
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	8270D	366393
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	8270D	366393
MB 500-366393/1-A	Method Blank	Total/NA	Solid	8270D	366393
LCS 500-366393/2-A	Lab Control Sample	Total/NA	Solid	8270D	366393
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	8270D	366393
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	8270D	366393

Analysis Batch: 366664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-2 - DL	1314V3-24-B10 (0-5)	Total/NA	Solid	8270D	366393
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	8270D	366393

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

GC/MS Semi VOA (Continued)

Analysis Batch: 366664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	8270D	366393
500-121429-15 - DL	1314V3-06-B08 (0-5)	Total/NA	Solid	8270D	366393
500-121429-17 - DL	1314V3-06-B07 (0-4.3)	Total/NA	Solid	8270D	366393

GC Semi VOA

Prep Batch: 365149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	3541	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	3541	
MB 500-365149/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-365149/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121429-11 MS	1314V3-06-B04 (0-5.2)	Total/NA	Solid	3541	
500-121429-11 MSD	1314V3-06-B04 (0-5.2)	Total/NA	Solid	3541	

Analysis Batch: 365225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	8082A	365149
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	8082A	365149
MB 500-365149/1-A	Method Blank	Total/NA	Solid	8082A	365149
LCS 500-365149/2-A	Lab Control Sample	Total/NA	Solid	8082A	365149
500-121429-11 MS	1314V3-06-B04 (0-5.2)	Total/NA	Solid	8082A	365149
500-121429-11 MSD	1314V3-06-B04 (0-5.2)	Total/NA	Solid	8082A	365149

Metals

Leach Batch: 365801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	SPLP East	Solid	1312	
500-121429-2	1314V3-24-B10 (0-5)	SPLP East	Solid	1312	
500-121429-3	1314V3-24-B01 (0-5.8)	SPLP East	Solid	1312	
500-121429-4	1314V3-24-B04 (0-5)	SPLP East	Solid	1312	
500-121429-5	1314V3-24-B04 (5-10)	SPLP East	Solid	1312	
500-121429-6	1314V3-24-B04 (5-10)D	SPLP East	Solid	1312	
500-121429-7	1314V3-24-B03 (0-5)	SPLP East	Solid	1312	
500-121429-8	1314V3-24-B03 (5-10)	SPLP East	Solid	1312	
500-121429-9	1314V3-24-B02 (0-5)	SPLP East	Solid	1312	
500-121429-10	1314V3-24-B02 (5-10)	SPLP East	Solid	1312	
500-121429-11	1314V3-06-B04 (0-5.2)	SPLP East	Solid	1312	
500-121429-12	1314V3-06-B09 (0-2)	SPLP East	Solid	1312	
500-121429-13	1314V3-06-B05 (0-8)	SPLP East	Solid	1312	
500-121429-14	1314V3-06-B06 (0-4)	SPLP East	Solid	1312	
500-121429-15	1314V3-06-B08 (0-5)	SPLP East	Solid	1312	
500-121429-16	1314V3-06-B08 (5-10)	SPLP East	Solid	1312	
500-121429-17	1314V3-06-B07 (0-4.3)	SPLP East	Solid	1312	
LB 500-365801/1-B	Method Blank	SPLP East	Solid	1312	
500-121429-17 MS	1314V3-06-B07 (0-4.3)	SPLP East	Solid	1312	
500-121429-17 DU	1314V3-06-B07 (0-4.3)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Leach Batch: 365818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	1311	
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	1311	
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	1311	
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	1311	
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	1311	
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	1311	
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	1311	
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	1311	
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	1311	
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	1311	
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	1311	
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	1311	
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	1311	
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	1311	
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	1311	
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	1311	
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	1311	
LB 500-365818/1-B	Method Blank	TCLP	Solid	1311	
LB 500-365818/1-C	Method Blank	TCLP	Solid	1311	
500-121429-1 MS	1314V3-24-B09 (0-4)	TCLP	Solid	1311	
500-121429-17 MS	1314V3-06-B07 (0-4.3)	TCLP	Solid	1311	
500-121429-1 DU	1314V3-24-B09 (0-4)	TCLP	Solid	1311	
500-121429-17 DU	1314V3-06-B07 (0-4.3)	TCLP	Solid	1311	

Prep Batch: 365823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	7471B	
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	7471B	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	7471B	
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	7471B	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	7471B	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	7471B	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	7471B	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	7471B	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	7471B	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	7471B	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	7471B	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	7471B	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	7471B	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	7471B	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	7471B	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	7471B	
MB 500-365823/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-365823/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Analysis Batch: 365953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	365823
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	7471B	365823
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	7471B	365823
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	7471B	365823
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	7471B	365823
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	7471B	365823
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	7471B	365823
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	7471B	365823
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	7471B	365823
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	7471B	365823
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	7471B	365823
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	7471B	365823
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	7471B	365823
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	7471B	365823
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	7471B	365823
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	7471B	365823
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	7471B	365823
MB 500-365823/12-A	Method Blank	Total/NA	Solid	7471B	365823
LCS 500-365823/13-A	Lab Control Sample	Total/NA	Solid	7471B	365823
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	365823
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	365823
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	7471B	365823

Prep Batch: 365965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365818
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	7470A	365818
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	7470A	365818
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	7470A	365818
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	7470A	365818
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	7470A	365818
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	7470A	365818
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	7470A	365818
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	7470A	365818
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	7470A	365818
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	7470A	365818
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	7470A	365818
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	7470A	365818
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	7470A	365818
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	7470A	365818
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	7470A	365818
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	7470A	365818
LB 500-365818/1-B	Method Blank	TCLP	Solid	7470A	365818
MB 500-365965/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-365965/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121429-1 MS	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365818
500-121429-1 DU	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365818

Prep Batch: 365974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	SPLP East	Solid	3010A	365801

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Prep Batch: 365974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-2	1314V3-24-B10 (0-5)	SPLP East	Solid	3010A	365801
500-121429-3	1314V3-24-B01 (0-5.8)	SPLP East	Solid	3010A	365801
500-121429-4	1314V3-24-B04 (0-5)	SPLP East	Solid	3010A	365801
500-121429-5	1314V3-24-B04 (5-10)	SPLP East	Solid	3010A	365801
500-121429-6	1314V3-24-B04 (5-10)D	SPLP East	Solid	3010A	365801
500-121429-7	1314V3-24-B03 (0-5)	SPLP East	Solid	3010A	365801
500-121429-8	1314V3-24-B03 (5-10)	SPLP East	Solid	3010A	365801
500-121429-9	1314V3-24-B02 (0-5)	SPLP East	Solid	3010A	365801
500-121429-10	1314V3-24-B02 (5-10)	SPLP East	Solid	3010A	365801
500-121429-11	1314V3-06-B04 (0-5.2)	SPLP East	Solid	3010A	365801
500-121429-12	1314V3-06-B09 (0-2)	SPLP East	Solid	3010A	365801
500-121429-13	1314V3-06-B05 (0-8)	SPLP East	Solid	3010A	365801
500-121429-14	1314V3-06-B06 (0-4)	SPLP East	Solid	3010A	365801
500-121429-15	1314V3-06-B08 (0-5)	SPLP East	Solid	3010A	365801
500-121429-16	1314V3-06-B08 (5-10)	SPLP East	Solid	3010A	365801
500-121429-17	1314V3-06-B07 (0-4.3)	SPLP East	Solid	3010A	365801
LB 500-365801/1-B	Method Blank	SPLP East	Solid	3010A	365801
LCS 500-365974/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121429-17 MS	1314V3-06-B07 (0-4.3)	SPLP East	Solid	3010A	365801
500-121429-17 DU	1314V3-06-B07 (0-4.3)	SPLP East	Solid	3010A	365801

Prep Batch: 365978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	3010A	365818
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	3010A	365818
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	3010A	365818
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	3010A	365818
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	3010A	365818
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	3010A	365818
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	3010A	365818
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	3010A	365818
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	3010A	365818
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	3010A	365818
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	3010A	365818
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	3010A	365818
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	3010A	365818
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	3010A	365818
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	3010A	365818
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	3010A	365818
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	3010A	365818
LB 500-365818/1-C	Method Blank	TCLP	Solid	3010A	365818
LCS 500-365978/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121429-17 MS	1314V3-06-B07 (0-4.3)	TCLP	Solid	3010A	365818
500-121429-17 DU	1314V3-06-B07 (0-4.3)	TCLP	Solid	3010A	365818

Prep Batch: 366082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	3050B	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	3050B	
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	3050B	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Prep Batch: 366082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	3050B	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	3050B	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	3050B	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	3050B	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	3050B	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	3050B	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	3050B	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	3050B	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	3050B	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	3050B	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	3050B	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	3050B	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	3050B	
MB 500-366082/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-366082/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	3050B	
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	3050B	
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	3050B	

Analysis Batch: 366131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365965
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	7470A	365965
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	7470A	365965
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	7470A	365965
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	7470A	365965
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	7470A	365965
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	7470A	365965
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	7470A	365965
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	7470A	365965
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	7470A	365965
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	7470A	365965
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	7470A	365965
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	7470A	365965
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	7470A	365965
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	7470A	365965
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	7470A	365965
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	7470A	365965
LB 500-365818/1-B	Method Blank	TCLP	Solid	7470A	365965
MB 500-365965/12-A	Method Blank	Total/NA	Solid	7470A	365965
LCS 500-365965/13-A	Lab Control Sample	Total/NA	Solid	7470A	365965
500-121429-1 MS	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365965
500-121429-1 DU	1314V3-24-B09 (0-4)	TCLP	Solid	7470A	365965

Analysis Batch: 366147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	6020A	365978
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	6020A	365978
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	6020A	365978
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	6020A	365978
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	6020A	365978

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Analysis Batch: 366147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	6020A	365978
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	6020A	365978
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	6020A	365978
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	6020A	365978
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	6020A	365978
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	6020A	365978
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	6020A	365978
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	6020A	365978
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	6020A	365978
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	6020A	365978
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	6020A	365978
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	6020A	365978
LB 500-365818/1-C	Method Blank	TCLP	Solid	6020A	365978
LCS 500-365978/2-A	Lab Control Sample	Total/NA	Solid	6020A	365978
500-121429-17 MS	1314V3-06-B07 (0-4.3)	TCLP	Solid	6020A	365978
500-121429-17 DU	1314V3-06-B07 (0-4.3)	TCLP	Solid	6020A	365978

Analysis Batch: 366301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-4	1314V3-24-B04 (0-5)	SPLP East	Solid	6020A	365974
500-121429-9	1314V3-24-B02 (0-5)	SPLP East	Solid	6020A	365974
LB 500-365801/1-B	Method Blank	SPLP East	Solid	6020A	365974
LCS 500-365974/2-A	Lab Control Sample	Total/NA	Solid	6020A	365974

Analysis Batch: 366305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	6010B	366082
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	6010B	366082
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	6010B	366082
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	6010B	366082
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	6010B	366082
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	6010B	366082
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	6010B	366082
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	6010B	366082
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	6010B	366082
MB 500-366082/1-A	Method Blank	Total/NA	Solid	6010B	366082
LCS 500-366082/2-A	Lab Control Sample	Total/NA	Solid	6010B	366082
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082

Analysis Batch: 366307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	SPLP East	Solid	6010B	365974
500-121429-1	1314V3-24-B09 (0-4)	TCLP	Solid	6010B	365978
500-121429-2	1314V3-24-B10 (0-5)	SPLP East	Solid	6010B	365974
500-121429-2	1314V3-24-B10 (0-5)	TCLP	Solid	6010B	365978
500-121429-3	1314V3-24-B01 (0-5.8)	SPLP East	Solid	6010B	365974
500-121429-3	1314V3-24-B01 (0-5.8)	TCLP	Solid	6010B	365978
500-121429-4	1314V3-24-B04 (0-5)	SPLP East	Solid	6010B	365974

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Metals (Continued)

Analysis Batch: 366307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-4	1314V3-24-B04 (0-5)	TCLP	Solid	6010B	365978
500-121429-5	1314V3-24-B04 (5-10)	SPLP East	Solid	6010B	365974
500-121429-5	1314V3-24-B04 (5-10)	TCLP	Solid	6010B	365978
500-121429-6	1314V3-24-B04 (5-10)D	SPLP East	Solid	6010B	365974
500-121429-6	1314V3-24-B04 (5-10)D	TCLP	Solid	6010B	365978
500-121429-7	1314V3-24-B03 (0-5)	SPLP East	Solid	6010B	365974
500-121429-7	1314V3-24-B03 (0-5)	TCLP	Solid	6010B	365978
500-121429-8	1314V3-24-B03 (5-10)	SPLP East	Solid	6010B	365974
500-121429-8	1314V3-24-B03 (5-10)	TCLP	Solid	6010B	365978
500-121429-9	1314V3-24-B02 (0-5)	SPLP East	Solid	6010B	365974
500-121429-9	1314V3-24-B02 (0-5)	TCLP	Solid	6010B	365978
500-121429-10	1314V3-24-B02 (5-10)	SPLP East	Solid	6010B	365974
500-121429-10	1314V3-24-B02 (5-10)	TCLP	Solid	6010B	365978
500-121429-11	1314V3-06-B04 (0-5.2)	SPLP East	Solid	6010B	365974
500-121429-11	1314V3-06-B04 (0-5.2)	TCLP	Solid	6010B	365978
500-121429-12	1314V3-06-B09 (0-2)	SPLP East	Solid	6010B	365974
500-121429-12	1314V3-06-B09 (0-2)	TCLP	Solid	6010B	365978
500-121429-13	1314V3-06-B05 (0-8)	SPLP East	Solid	6010B	365974
500-121429-13	1314V3-06-B05 (0-8)	TCLP	Solid	6010B	365978
500-121429-14	1314V3-06-B06 (0-4)	SPLP East	Solid	6010B	365974
500-121429-14	1314V3-06-B06 (0-4)	TCLP	Solid	6010B	365978
500-121429-15	1314V3-06-B08 (0-5)	SPLP East	Solid	6010B	365974
500-121429-15	1314V3-06-B08 (0-5)	TCLP	Solid	6010B	365978
500-121429-16	1314V3-06-B08 (5-10)	SPLP East	Solid	6010B	365974
500-121429-16	1314V3-06-B08 (5-10)	TCLP	Solid	6010B	365978
500-121429-17	1314V3-06-B07 (0-4.3)	SPLP East	Solid	6010B	365974
500-121429-17	1314V3-06-B07 (0-4.3)	TCLP	Solid	6010B	365978
LB 500-365801/1-B	Method Blank	SPLP East	Solid	6010B	365974
LB 500-365818/1-C	Method Blank	TCLP	Solid	6010B	365978
LCS 500-365974/2-A	Lab Control Sample	Total/NA	Solid	6010B	365974
LCS 500-365978/2-A	Lab Control Sample	Total/NA	Solid	6010B	365978
500-121429-17 MS	1314V3-06-B07 (0-4.3)	SPLP East	Solid	6010B	365974
500-121429-17 MS	1314V3-06-B07 (0-4.3)	TCLP	Solid	6010B	365978
500-121429-17 DU	1314V3-06-B07 (0-4.3)	SPLP East	Solid	6010B	365974
500-121429-17 DU	1314V3-06-B07 (0-4.3)	TCLP	Solid	6010B	365978

Analysis Batch: 366445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	6010B	366082
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	6010B	366082
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	6010B	366082
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	6010B	366082
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	6010B	366082
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	6010B	366082
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	6010B	366082
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	6010B	366082
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	6010B	366082
500-121429-1 MS	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-1 MSD	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	6010B	366082

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Analysis Batch: 366566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	6010B	366082

General Chemistry

Analysis Batch: 365806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	Moisture	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	Moisture	
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	Moisture	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	Moisture	
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	Moisture	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	Moisture	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	Moisture	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	Moisture	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	Moisture	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	Moisture	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	Moisture	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	Moisture	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	Moisture	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	Moisture	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	Moisture	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	Moisture	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	Moisture	
500-121429-1 DU	1314V3-24-B09 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 366026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-1	1314V3-24-B09 (0-4)	Total/NA	Solid	9045D	
500-121429-2	1314V3-24-B10 (0-5)	Total/NA	Solid	9045D	

Analysis Batch: 366167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121429-3	1314V3-24-B01 (0-5.8)	Total/NA	Solid	9045D	
500-121429-4	1314V3-24-B04 (0-5)	Total/NA	Solid	9045D	
500-121429-5	1314V3-24-B04 (5-10)	Total/NA	Solid	9045D	
500-121429-6	1314V3-24-B04 (5-10)D	Total/NA	Solid	9045D	
500-121429-7	1314V3-24-B03 (0-5)	Total/NA	Solid	9045D	
500-121429-8	1314V3-24-B03 (5-10)	Total/NA	Solid	9045D	
500-121429-9	1314V3-24-B02 (0-5)	Total/NA	Solid	9045D	
500-121429-10	1314V3-24-B02 (5-10)	Total/NA	Solid	9045D	
500-121429-11	1314V3-06-B04 (0-5.2)	Total/NA	Solid	9045D	
500-121429-12	1314V3-06-B09 (0-2)	Total/NA	Solid	9045D	
500-121429-13	1314V3-06-B05 (0-8)	Total/NA	Solid	9045D	
500-121429-14	1314V3-06-B06 (0-4)	Total/NA	Solid	9045D	
500-121429-15	1314V3-06-B08 (0-5)	Total/NA	Solid	9045D	
500-121429-16	1314V3-06-B08 (5-10)	Total/NA	Solid	9045D	
500-121429-17	1314V3-06-B07 (0-4.3)	Total/NA	Solid	9045D	
500-121429-11 DU	1314V3-06-B04 (0-5.2)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121429-1	1314V3-24-B09 (0-4)	111	96	104	107
500-121429-2	1314V3-24-B10 (0-5)	112	98	106	106
500-121429-3	1314V3-24-B01 (0-5.8)	110	101	109	108
500-121429-4	1314V3-24-B04 (0-5)	113	100	110	107
500-121429-5	1314V3-24-B04 (5-10)	108	95	107	103
500-121429-6	1314V3-24-B04 (5-10)D	111	104	119	102
500-121429-7	1314V3-24-B03 (0-5)	117	99	109	108
500-121429-8	1314V3-24-B03 (5-10)	112	97	107	104
500-121429-9	1314V3-24-B02 (0-5)	114	99	108	107
500-121429-10	1314V3-24-B02 (5-10)	113	99	107	104
500-121429-11	1314V3-06-B04 (0-5.2)	111	97	109	104
500-121429-12	1314V3-06-B09 (0-2)	129 X	97	107	114
500-121429-13	1314V3-06-B05 (0-8)	115	99	109	109
500-121429-14	1314V3-06-B06 (0-4)	130 X	101	107	114
500-121429-15	1314V3-06-B08 (0-5)	112	95	102	106
500-121429-16	1314V3-06-B08 (5-10)	115	100	107	107
500-121429-17	1314V3-06-B07 (0-4.3)	115	99	113	105
LCS 500-365218/5	Lab Control Sample	105	96	100	105
LCS 500-365428/5	Lab Control Sample	107	95	101	105
LCSD 500-365218/6	Lab Control Sample Dup	106	94	98	106
LCSD 500-365428/6	Lab Control Sample Dup	105	97	96	107
MB 500-365218/8	Method Blank	110	94	103	105
MB 500-365428/8	Method Blank	111	95	103	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121429-1	1314V3-24-B09 (0-4)	87	88	66	79	103	168 X
500-121429-1 MS	1314V3-24-B09 (0-4)	103	93	81	79	99	154 X
500-121429-1 MSD	1314V3-24-B09 (0-4)	96	86	77	75	93	152 X
500-121429-2	1314V3-24-B10 (0-5)	106	93	82	81	95	150
500-121429-2 - DL	1314V3-24-B10 (0-5)	101	108	103	94	74	133
500-121429-3	1314V3-24-B01 (0-5.8)	99	87	74	78	90	110
500-121429-4	1314V3-24-B04 (0-5)	89	83	69	70	58	87
500-121429-5	1314V3-24-B04 (5-10)	102	90	82	77	90	89
500-121429-6	1314V3-24-B04 (5-10)D	86	76	73	68	77	90
500-121429-7	1314V3-24-B03 (0-5)	90	82	67	70	79	88
500-121429-8	1314V3-24-B03 (5-10)	94	81	69	70	72	87
500-121429-9	1314V3-24-B02 (0-5)	97	109	93	89	82	219 X
500-121429-10	1314V3-24-B02 (5-10)	83	79	65	66	78	86

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121429-11	1314V3-06-B04 (0-5.2)	98	87	75	76	88	100
500-121429-12	1314V3-06-B09 (0-2)	111	121	109	102	83	210 X
500-121429-13	1314V3-06-B05 (0-8)	84	75	60	66	92	86
500-121429-14	1314V3-06-B06 (0-4)	92	87	73	72	76	115
500-121429-15	1314V3-06-B08 (0-5)	95	90	76	76	88	132
500-121429-15 - DL	1314V3-06-B08 (0-5)	92	104	99	91	77	125
500-121429-16	1314V3-06-B08 (5-10)	90	86	70	73	97	126
500-121429-17	1314V3-06-B07 (0-4.3)	88	85	70	69	72	124
500-121429-17 - DL	1314V3-06-B07 (0-4.3)	81	94	87	79	61	115
LCS 500-366393/2-A	Lab Control Sample	100	91	86	81	84	90
MB 500-366393/1-A	Method Blank	100	80	81	84	79	95

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (41-124)	DCB1 (47-127)
500-121429-11	1314V3-06-B04 (0-5.2)	103	101
500-121429-11 MS	1314V3-06-B04 (0-5.2)	98	94
500-121429-11 MSD	1314V3-06-B04 (0-5.2)	100	97
500-121429-13	1314V3-06-B05 (0-8)	93	75
LCS 500-365149/2-A	Lab Control Sample	94	103
MB 500-365149/1-A	Method Blank	104	111

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-365218/8

Matrix: Solid

Analysis Batch: 365218

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/15/16 12:48	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/15/16 12:48	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/15/16 12:48	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/15/16 12:48	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/15/16 12:48	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/15/16 12:48	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/15/16 12:48	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/15/16 12:48	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/15/16 12:48	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/15/16 12:48	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/15/16 12:48	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/15/16 12:48	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/15/16 12:48	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/15/16 12:48	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/15/16 12:48	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/15/16 12:48	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/15/16 12:48	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/15/16 12:48	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/15/16 12:48	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/15/16 12:48	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/15/16 12:48	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/15/16 12:48	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/15/16 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/15/16 12:48	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/15/16 12:48	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/15/16 12:48	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/15/16 12:48	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/15/16 12:48	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/15/16 12:48	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/15/16 12:48	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/15/16 12:48	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/15/16 12:48	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/15/16 12:48	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/15/16 12:48	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/15/16 12:48	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/15/16 12:48	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/15/16 12:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 120		12/15/16 12:48	1
Dibromofluoromethane	94		75 - 120		12/15/16 12:48	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134		12/15/16 12:48	1
Toluene-d8 (Surr)	105		75 - 123		12/15/16 12:48	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365218/5

Matrix: Solid

Analysis Batch: 365218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0557		mg/Kg		111	40 - 148
Benzene	0.0500	0.0454		mg/Kg		91	70 - 120
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 120
Bromoform	0.0500	0.0465		mg/Kg		93	50 - 129
Bromomethane	0.0500	0.0471		mg/Kg		94	50 - 134
2-Butanone (MEK)	0.0500	0.0526		mg/Kg		105	47 - 138
Carbon disulfide	0.0500	0.0471		mg/Kg		94	67 - 133
Carbon tetrachloride	0.0500	0.0480		mg/Kg		96	65 - 123
Chlorobenzene	0.0500	0.0462		mg/Kg		92	70 - 120
Chloroethane	0.0500	0.0577		mg/Kg		115	40 - 150
Chloroform	0.0500	0.0481		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0445		mg/Kg		89	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0449		mg/Kg		90	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 120
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	68 - 120
1,1-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0503		mg/Kg		101	65 - 126
1,1-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 122
1,2-Dichloropropane	0.0500	0.0452		mg/Kg		90	70 - 126
Ethylbenzene	0.0500	0.0469		mg/Kg		94	70 - 120
2-Hexanone	0.0500	0.0478		mg/Kg		96	51 - 139
Methylene Chloride	0.0500	0.0462		mg/Kg		92	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0524		mg/Kg		105	51 - 141
Methyl tert-butyl ether	0.0500	0.0500		mg/Kg		100	70 - 121
Styrene	0.0500	0.0469		mg/Kg		94	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0520		mg/Kg		104	70 - 125
Tetrachloroethene	0.0500	0.0475		mg/Kg		95	70 - 122
Toluene	0.0500	0.0470		mg/Kg		94	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0469		mg/Kg		94	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0494		mg/Kg		99	70 - 121
1,1,1-Trichloroethane	0.0500	0.0489		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 120
Trichloroethene	0.0500	0.0447		mg/Kg		89	70 - 124
Vinyl acetate	0.0500	0.0472		mg/Kg		94	40 - 150
Vinyl chloride	0.0500	0.0487		mg/Kg		97	64 - 125
Xylenes, Total	0.100	0.0972		mg/Kg		97	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 120
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		69 - 134
Toluene-d8 (Surr)	105		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365218/6

Matrix: Solid

Analysis Batch: 365218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0515		mg/Kg		103	40 - 148	8	30
Benzene	0.0500	0.0446		mg/Kg		89	70 - 120	2	30
Bromodichloromethane	0.0500	0.0458		mg/Kg		92	67 - 120	6	30
Bromoform	0.0500	0.0436		mg/Kg		87	50 - 129	6	30
Bromomethane	0.0500	0.0455		mg/Kg		91	50 - 134	4	30
2-Butanone (MEK)	0.0500	0.0512		mg/Kg		102	47 - 138	3	30
Carbon disulfide	0.0500	0.0460		mg/Kg		92	67 - 133	2	30
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	65 - 123	3	30
Chlorobenzene	0.0500	0.0452		mg/Kg		90	70 - 120	2	30
Chloroethane	0.0500	0.0582		mg/Kg		116	40 - 150	1	30
Chloroform	0.0500	0.0467		mg/Kg		93	70 - 120	3	30
Chloromethane	0.0500	0.0441		mg/Kg		88	63 - 135	1	30
cis-1,2-Dichloroethene	0.0500	0.0435		mg/Kg		87	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 120	5	30
Dibromochloromethane	0.0500	0.0452		mg/Kg		90	68 - 120	8	30
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0470		mg/Kg		94	65 - 126	7	30
1,1-Dichloroethene	0.0500	0.0470		mg/Kg		94	70 - 122	2	30
1,2-Dichloropropane	0.0500	0.0435		mg/Kg		87	70 - 126	4	30
Ethylbenzene	0.0500	0.0463		mg/Kg		93	70 - 120	1	30
2-Hexanone	0.0500	0.0552		mg/Kg		110	51 - 139	14	30
Methylene Chloride	0.0500	0.0437		mg/Kg		87	70 - 121	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0568		mg/Kg		114	51 - 141	8	30
Methyl tert-butyl ether	0.0500	0.0462		mg/Kg		92	70 - 121	8	30
Styrene	0.0500	0.0453		mg/Kg		91	70 - 121	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0484		mg/Kg		97	70 - 125	7	30
Tetrachloroethene	0.0500	0.0461		mg/Kg		92	70 - 122	3	30
Toluene	0.0500	0.0466		mg/Kg		93	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 120	2	30
trans-1,3-Dichloropropene	0.0500	0.0472		mg/Kg		94	70 - 121	5	30
1,1,1-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0451		mg/Kg		90	70 - 120	8	30
Trichloroethene	0.0500	0.0439		mg/Kg		88	70 - 124	2	30
Vinyl acetate	0.0500	0.0455		mg/Kg		91	40 - 150	4	30
Vinyl chloride	0.0500	0.0475		mg/Kg		95	64 - 125	2	30
Xylenes, Total	0.100	0.0955		mg/Kg		95	70 - 123	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	106		70 - 120
Dibromofluoromethane	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		69 - 134
Toluene-d8 (Surr)	106		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365428/8

Matrix: Solid

Analysis Batch: 365428

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/16/16 11:55	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/16/16 11:55	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/16/16 11:55	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/16/16 11:55	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/16/16 11:55	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/16/16 11:55	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/16/16 11:55	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/16/16 11:55	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/16/16 11:55	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/16/16 11:55	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/16/16 11:55	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/16/16 11:55	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/16/16 11:55	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/16/16 11:55	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/16/16 11:55	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/16/16 11:55	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/16/16 11:55	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/16/16 11:55	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/16/16 11:55	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/16/16 11:55	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/16/16 11:55	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/16/16 11:55	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/16/16 11:55	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/16/16 11:55	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/16/16 11:55	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/16/16 11:55	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/16/16 11:55	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/16/16 11:55	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/16/16 11:55	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/16/16 11:55	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/16/16 11:55	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/16/16 11:55	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/16/16 11:55	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/16/16 11:55	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/16/16 11:55	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/16/16 11:55	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/16/16 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 120		12/16/16 11:55	1
Dibromofluoromethane	95		75 - 120		12/16/16 11:55	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 134		12/16/16 11:55	1
Toluene-d8 (Surr)	107		75 - 123		12/16/16 11:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365428/5

Matrix: Solid

Analysis Batch: 365428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0471		mg/Kg		94	40 - 148
Benzene	0.0500	0.0442		mg/Kg		88	70 - 120
Bromodichloromethane	0.0500	0.0465		mg/Kg		93	67 - 120
Bromoform	0.0500	0.0461		mg/Kg		92	50 - 129
Bromomethane	0.0500	0.0487		mg/Kg		97	50 - 134
2-Butanone (MEK)	0.0500	0.0495		mg/Kg		99	47 - 138
Carbon disulfide	0.0500	0.0446		mg/Kg		89	67 - 133
Carbon tetrachloride	0.0500	0.0477		mg/Kg		95	65 - 123
Chlorobenzene	0.0500	0.0467		mg/Kg		93	70 - 120
Chloroethane	0.0500	0.0608		mg/Kg		122	40 - 150
Chloroform	0.0500	0.0468		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0444		mg/Kg		89	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0481		mg/Kg		96	70 - 120
Dibromochloromethane	0.0500	0.0475		mg/Kg		95	68 - 120
1,1-Dichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125
1,2-Dichloroethane	0.0500	0.0477		mg/Kg		95	65 - 126
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 122
1,2-Dichloropropane	0.0500	0.0449		mg/Kg		90	70 - 126
Ethylbenzene	0.0500	0.0465		mg/Kg		93	70 - 120
2-Hexanone	0.0500	0.0445		mg/Kg		89	51 - 139
Methylene Chloride	0.0500	0.0430		mg/Kg		86	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0485		mg/Kg		97	51 - 141
Methyl tert-butyl ether	0.0500	0.0465		mg/Kg		93	70 - 121
Styrene	0.0500	0.0476		mg/Kg		95	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0528		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0465		mg/Kg		93	70 - 122
Toluene	0.0500	0.0470		mg/Kg		94	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 121
1,1,1-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 120
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 120
Trichloroethene	0.0500	0.0440		mg/Kg		88	70 - 124
Vinyl acetate	0.0500	0.0435		mg/Kg		87	40 - 150
Vinyl chloride	0.0500	0.0485		mg/Kg		97	64 - 125
Xylenes, Total	0.100	0.0982		mg/Kg		98	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 120
Dibromofluoromethane	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		69 - 134
Toluene-d8 (Surr)	105		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365428/6

Matrix: Solid

Analysis Batch: 365428

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0424		mg/Kg		85	40 - 148	10	30
Benzene	0.0500	0.0418		mg/Kg		84	70 - 120	5	30
Bromodichloromethane	0.0500	0.0439		mg/Kg		88	67 - 120	6	30
Bromoform	0.0500	0.0430		mg/Kg		86	50 - 129	7	30
Bromomethane	0.0500	0.0466		mg/Kg		93	50 - 134	4	30
2-Butanone (MEK)	0.0500	0.0441		mg/Kg		88	47 - 138	12	30
Carbon disulfide	0.0500	0.0426		mg/Kg		85	67 - 133	4	30
Carbon tetrachloride	0.0500	0.0448		mg/Kg		90	65 - 123	6	30
Chlorobenzene	0.0500	0.0441		mg/Kg		88	70 - 120	6	30
Chloroethane	0.0500	0.0599		mg/Kg		120	40 - 150	2	30
Chloroform	0.0500	0.0456		mg/Kg		91	70 - 120	3	30
Chloromethane	0.0500	0.0434		mg/Kg		87	63 - 135	2	30
cis-1,2-Dichloroethene	0.0500	0.0424		mg/Kg		85	70 - 120	5	30
cis-1,3-Dichloropropene	0.0500	0.0444		mg/Kg		89	70 - 120	8	30
Dibromochloromethane	0.0500	0.0437		mg/Kg		87	68 - 120	8	30
1,1-Dichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0452		mg/Kg		90	65 - 126	6	30
1,1-Dichloroethene	0.0500	0.0434		mg/Kg		87	70 - 122	5	30
1,2-Dichloropropane	0.0500	0.0417		mg/Kg		83	70 - 126	8	30
Ethylbenzene	0.0500	0.0462		mg/Kg		92	70 - 120	1	30
2-Hexanone	0.0500	0.0456		mg/Kg		91	51 - 139	2	30
Methylene Chloride	0.0500	0.0399		mg/Kg		80	70 - 121	7	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0487		mg/Kg		97	51 - 141	0	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	70 - 121	8	30
Styrene	0.0500	0.0450		mg/Kg		90	70 - 121	5	30
1,1,1,2-Tetrachloroethane	0.0500	0.0459		mg/Kg		92	70 - 125	14	30
Tetrachloroethene	0.0500	0.0441		mg/Kg		88	70 - 122	5	30
Toluene	0.0500	0.0448		mg/Kg		90	70 - 121	5	30
trans-1,2-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 121	10	30
1,1,1-Trichloroethane	0.0500	0.0462		mg/Kg		92	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0429		mg/Kg		86	70 - 120	9	30
Trichloroethene	0.0500	0.0412		mg/Kg		82	70 - 124	7	30
Vinyl acetate	0.0500	0.0428		mg/Kg		86	40 - 150	2	30
Vinyl chloride	0.0500	0.0462		mg/Kg		92	64 - 125	5	30
Xylenes, Total	0.100	0.0944		mg/Kg		94	70 - 123	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 120
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		69 - 134
Toluene-d8 (Surr)	107		75 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366393/1-A

Matrix: Solid

Analysis Batch: 366484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/22/16 15:26	12/23/16 13:51	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366393/1-A
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/22/16 15:26	12/23/16 13:51	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/22/16 15:26	12/23/16 13:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/22/16 15:26	12/23/16 13:51	1
Phenol-d5	80		36 - 123	12/22/16 15:26	12/23/16 13:51	1
Nitrobenzene-d5	81		33 - 124	12/22/16 15:26	12/23/16 13:51	1
2-Fluorobiphenyl	84		42 - 115	12/22/16 15:26	12/23/16 13:51	1
2,4,6-Tribromophenol	79		25 - 130	12/22/16 15:26	12/23/16 13:51	1
Terphenyl-d14	95		25 - 150	12/22/16 15:26	12/23/16 13:51	1

Lab Sample ID: LCS 500-366393/2-A
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.19		mg/Kg		89	55 - 118
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		89	53 - 116
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		81	56 - 110
1,4-Dichlorobenzene	1.33	1.09		mg/Kg		82	57 - 110
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		82	56 - 110
2-Methylphenol	1.33	1.05		mg/Kg		79	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.16		mg/Kg		87	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 119
Hexachloroethane	1.33	1.10		mg/Kg		82	54 - 111
2-Chlorophenol	1.33	1.14		mg/Kg		85	57 - 117
Nitrobenzene	1.33	1.11		mg/Kg		83	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.17		mg/Kg		88	59 - 116
1,2,4-Trichlorobenzene	1.33	1.11		mg/Kg		84	60 - 116
Isophorone	1.33	1.11		mg/Kg		83	54 - 120
2,4-Dimethylphenol	1.33	0.966		mg/Kg		72	50 - 120
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.12		mg/Kg		84	58 - 116
2,4-Dichlorophenol	1.33	1.25		mg/Kg		93	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366393/2-A
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.18		mg/Kg		89	10 - 150
2,4,6-Trichlorophenol	1.33	1.12		mg/Kg		84	50 - 120
2,4,5-Trichlorophenol	1.33	1.11		mg/Kg		83	42 - 119
Hexachlorocyclopentadiene	1.33	0.689		mg/Kg		52	10 - 116
2-Methylnaphthalene	1.33	1.16		mg/Kg		87	55 - 120
2-Nitroaniline	1.33	1.18		mg/Kg		88	52 - 121
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	57 - 112
4-Chloro-3-methylphenol	1.33	1.17		mg/Kg		88	59 - 117
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	57 - 118
2-Nitrophenol	1.33	1.21		mg/Kg		91	58 - 121
3-Nitroaniline	1.33	1.21		mg/Kg		91	20 - 144
Dimethyl phthalate	1.33	1.13		mg/Kg		85	60 - 112
2,4-Dinitrophenol	2.67	0.942		mg/Kg		35	10 - 110
Acenaphthylene	1.33	1.08		mg/Kg		81	57 - 116
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	59 - 119
Acenaphthene	1.33	1.10		mg/Kg		82	52 - 113
Dibenzofuran	1.33	1.12		mg/Kg		84	59 - 110
4-Nitrophenol	2.67	2.18		mg/Kg		82	32 - 123
Fluorene	1.33	1.11		mg/Kg		83	56 - 115
4-Nitroaniline	1.33	1.60		mg/Kg		120	55 - 146
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		88	61 - 124
Hexachlorobenzene	1.33	1.12		mg/Kg		84	62 - 126
Diethyl phthalate	1.33	1.15		mg/Kg		86	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.14		mg/Kg		86	61 - 111
Pentachlorophenol	2.67	2.37		mg/Kg		89	12 - 116
N-Nitrosodiphenylamine	1.33	1.15		mg/Kg		86	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.52		mg/Kg		57	10 - 110
Phenanthrene	1.33	1.13		mg/Kg		85	58 - 125
Anthracene	1.33	1.15		mg/Kg		86	57 - 118
Carbazole	1.33	1.33		mg/Kg		100	65 - 137
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	61 - 123
Fluoranthene	1.33	1.19		mg/Kg		89	61 - 124
Pyrene	1.33	1.12		mg/Kg		84	60 - 115
Butyl benzyl phthalate	1.33	1.17		mg/Kg		87	61 - 115
Benzo[a]anthracene	1.33	1.10		mg/Kg		82	63 - 115
Chrysene	1.33	1.10		mg/Kg		83	63 - 118
3,3'-Dichlorobenzidine	1.33	0.968		mg/Kg		73	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		89	62 - 117
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	58 - 129
Benzo[b]fluoranthene	1.33	1.15		mg/Kg		86	61 - 123
Benzo[k]fluoranthene	1.33	1.14		mg/Kg		85	59 - 125
Benzo[a]pyrene	1.33	1.20		mg/Kg		90	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.27		mg/Kg		95	50 - 149
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		97	61 - 134
Benzo[g,h,i]perylene	1.33	1.30		mg/Kg		98	55 - 134
3 & 4 Methylphenol	1.33	1.36		mg/Kg		102	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366393/2-A
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366393

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	100		40 - 130
Phenol-d5	91		36 - 123
Nitrobenzene-d5	86		33 - 124
2-Fluorobiphenyl	81		42 - 115
2,4,6-Tribromophenol	84		25 - 130
Terphenyl-d14	90		25 - 150

Lab Sample ID: 500-121429-1 MS
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 366393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.18		1.47	1.40		mg/Kg	☼	95	55 - 118
Bis(2-chloroethyl)ether	<0.18		1.47	1.15		mg/Kg	☼	78	53 - 116
1,3-Dichlorobenzene	<0.18		1.47	1.07		mg/Kg	☼	73	56 - 110
1,4-Dichlorobenzene	<0.18		1.47	1.09		mg/Kg	☼	74	57 - 110
1,2-Dichlorobenzene	<0.18		1.47	1.09		mg/Kg	☼	74	56 - 110
2-Methylphenol	<0.18		1.47	1.34		mg/Kg	☼	92	53 - 123
2,2'-oxybis[1-chloropropane]	<0.18		1.47	1.15		mg/Kg	☼	78	22 - 133
N-Nitrosodi-n-propylamine	<0.074		1.47	1.26		mg/Kg	☼	86	56 - 119
Hexachloroethane	<0.18		1.47	0.903		mg/Kg	☼	62	54 - 111
2-Chlorophenol	<0.18		1.47	1.26		mg/Kg	☼	86	57 - 117
Nitrobenzene	<0.036		1.47	1.14		mg/Kg	☼	78	56 - 121
Bis(2-chloroethoxy)methane	<0.18		1.47	1.22		mg/Kg	☼	83	59 - 116
1,2,4-Trichlorobenzene	<0.18		1.47	1.15		mg/Kg	☼	78	60 - 116
Isophorone	<0.18		1.47	1.13		mg/Kg	☼	77	54 - 120
2,4-Dimethylphenol	<0.36		1.47	1.19		mg/Kg	☼	81	50 - 120
Hexachlorobutadiene	<0.18		1.47	1.14		mg/Kg	☼	78	56 - 120
Naphthalene	<0.036		1.47	1.14		mg/Kg	☼	78	58 - 116
2,4-Dichlorophenol	<0.36		1.47	1.33		mg/Kg	☼	91	61 - 116
4-Chloroaniline	<0.74		1.47	0.833		mg/Kg	☼	57	10 - 150
2,4,6-Trichlorophenol	<0.36		1.47	1.20		mg/Kg	☼	82	50 - 120
2,4,5-Trichlorophenol	<0.36		1.47	1.49		mg/Kg	☼	102	42 - 119
Hexachlorocyclopentadiene	<0.74	F1	1.47	<0.74	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	<0.074		1.47	1.20		mg/Kg	☼	82	55 - 120
2-Nitroaniline	<0.18		1.47	1.25		mg/Kg	☼	85	52 - 121
2-Chloronaphthalene	<0.18		1.47	1.21		mg/Kg	☼	82	57 - 112
4-Chloro-3-methylphenol	<0.36		1.47	1.25		mg/Kg	☼	85	59 - 117
2,6-Dinitrotoluene	<0.18		1.47	1.27		mg/Kg	☼	86	57 - 118
2-Nitrophenol	<0.36		1.47	1.24		mg/Kg	☼	84	58 - 121
3-Nitroaniline	<0.36		1.47	1.09		mg/Kg	☼	75	20 - 144
Dimethyl phthalate	<0.18		1.47	1.24		mg/Kg	☼	85	60 - 112
2,4-Dinitrophenol	<0.74	F1	2.93	<0.74	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.036		1.47	1.13		mg/Kg	☼	77	57 - 116
2,4-Dinitrotoluene	<0.18		1.47	1.22		mg/Kg	☼	83	59 - 119
Acenaphthene	<0.036		1.47	1.18		mg/Kg	☼	81	52 - 113
Dibenzofuran	<0.18		1.47	1.25		mg/Kg	☼	85	59 - 110
4-Nitrophenol	<0.74		2.93	2.50		mg/Kg	☼	85	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121429-1 MS

Matrix: Solid

Analysis Batch: 366484

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366393

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result			Result					
Fluorene	<0.036		1.47	1.25		mg/Kg	☼	85	56 - 115
4-Nitroaniline	<0.36		1.47	1.58		mg/Kg	☼	108	55 - 146
4-Bromophenyl phenyl ether	<0.18		1.47	1.27		mg/Kg	☼	86	61 - 124
Hexachlorobenzene	<0.074		1.47	1.22		mg/Kg	☼	83	62 - 126
Diethyl phthalate	<0.18		1.47	1.27		mg/Kg	☼	87	58 - 117
4-Chlorophenyl phenyl ether	<0.18		1.47	1.27		mg/Kg	☼	86	61 - 111
Pentachlorophenol	<0.74	F2	2.93	1.92		mg/Kg	☼	65	12 - 116
N-Nitrosodiphenylamine	<0.18		1.47	1.25		mg/Kg	☼	85	62 - 117
4,6-Dinitro-2-methylphenol	<0.74	F1	2.93	<0.74	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.032	J	1.47	1.26		mg/Kg	☼	84	58 - 125
Anthracene	0.0074	J	1.47	1.24		mg/Kg	☼	84	57 - 118
Carbazole	<0.18		1.47	1.41		mg/Kg	☼	96	65 - 137
Di-n-butyl phthalate	<0.18		1.47	1.29		mg/Kg	☼	88	61 - 123
Fluoranthene	0.043		1.47	1.17		mg/Kg	☼	77	61 - 124
Pyrene	0.084	F1	1.47	2.16	F1	mg/Kg	☼	141	60 - 115
Butyl benzyl phthalate	<0.18	F1	1.47	2.11	F1	mg/Kg	☼	144	61 - 115
Benzo[a]anthracene	0.028	J	1.47	1.25		mg/Kg	☼	83	63 - 115
Chrysene	0.044		1.47	1.25		mg/Kg	☼	82	63 - 118
3,3'-Dichlorobenzidine	<0.18	F1	1.47	0.546	F1	mg/Kg	☼	37	40 - 110
Bis(2-ethylhexyl) phthalate	<0.18	F1	1.47	2.00	F1	mg/Kg	☼	136	62 - 117
Di-n-octyl phthalate	<0.18	F1	1.47	0.759	F1	mg/Kg	☼	52	58 - 129
Benzo[b]fluoranthene	0.067		1.47	1.73		mg/Kg	☼	114	61 - 123
Benzo[k]fluoranthene	0.015	J	1.47	1.68		mg/Kg	☼	113	59 - 125
Benzo[a]pyrene	0.042		1.47	1.41		mg/Kg	☼	93	64 - 122
Indeno[1,2,3-cd]pyrene	0.024	J F1	1.47	0.762		mg/Kg	☼	50	50 - 149
Dibenz(a,h)anthracene	<0.036	F1	1.47	0.772	F1	mg/Kg	☼	53	61 - 134
Benzo[g,h,i]perylene	<0.036	F1	1.47	0.675	F1	mg/Kg	☼	46	55 - 134
3 & 4 Methylphenol	<0.18		1.47	1.49		mg/Kg	☼	102	55 - 124

Surrogate	MS	MS Qualifier	Limits
	%Recovery		
2-Fluorophenol	103		40 - 130
Phenol-d5	93		36 - 123
Nitrobenzene-d5	81		33 - 124
2-Fluorobiphenyl	79		42 - 115
2,4,6-Tribromophenol	99		25 - 130
Terphenyl-d14	154	X	25 - 150

Lab Sample ID: 500-121429-1 MSD

Matrix: Solid

Analysis Batch: 366484

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366393

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
	Result			Result						RPD	Limit
Phenol	<0.18		1.49	1.32		mg/Kg	☼	88	55 - 118	6	30
Bis(2-chloroethyl)ether	<0.18		1.49	1.08		mg/Kg	☼	72	53 - 116	6	30
1,3-Dichlorobenzene	<0.18		1.49	1.03		mg/Kg	☼	69	56 - 110	3	30
1,4-Dichlorobenzene	<0.18		1.49	1.05		mg/Kg	☼	70	57 - 110	4	30
1,2-Dichlorobenzene	<0.18		1.49	1.06		mg/Kg	☼	71	56 - 110	3	30
2-Methylphenol	<0.18		1.49	1.25		mg/Kg	☼	84	53 - 123	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121429-1 MSD

Matrix: Solid

Analysis Batch: 366484

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366393

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.18		1.49	1.09		mg/Kg	☼	73	22 - 133	5	30
N-Nitrosodi-n-propylamine	<0.074		1.49	1.19		mg/Kg	☼	80	56 - 119	5	30
Hexachloroethane	<0.18		1.49	0.850		mg/Kg	☼	57	54 - 111	6	30
2-Chlorophenol	<0.18		1.49	1.17		mg/Kg	☼	78	57 - 117	8	30
Nitrobenzene	<0.036		1.49	1.09		mg/Kg	☼	73	56 - 121	4	30
Bis(2-chloroethoxy)methane	<0.18		1.49	1.17		mg/Kg	☼	78	59 - 116	5	30
1,2,4-Trichlorobenzene	<0.18		1.49	1.11		mg/Kg	☼	74	60 - 116	4	30
Isophorone	<0.18		1.49	1.10		mg/Kg	☼	73	54 - 120	3	30
2,4-Dimethylphenol	<0.36		1.49	1.14		mg/Kg	☼	76	50 - 120	4	30
Hexachlorobutadiene	<0.18		1.49	1.09		mg/Kg	☼	73	56 - 120	4	30
Naphthalene	<0.036		1.49	1.12		mg/Kg	☼	75	58 - 116	2	30
2,4-Dichlorophenol	<0.36		1.49	1.28		mg/Kg	☼	85	61 - 116	4	30
4-Chloroaniline	<0.74		1.49	0.831		mg/Kg	☼	56	10 - 150	0	30
2,4,6-Trichlorophenol	<0.36		1.49	1.15		mg/Kg	☼	77	50 - 120	5	30
2,4,5-Trichlorophenol	<0.36		1.49	1.30		mg/Kg	☼	87	42 - 119	14	30
Hexachlorocyclopentadiene	<0.74	F1	1.49	<0.75	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	<0.074		1.49	1.15		mg/Kg	☼	77	55 - 120	3	30
2-Nitroaniline	<0.18		1.49	1.21		mg/Kg	☼	81	52 - 121	3	30
2-Chloronaphthalene	<0.18		1.49	1.14		mg/Kg	☼	77	57 - 112	5	30
4-Chloro-3-methylphenol	<0.36		1.49	1.21		mg/Kg	☼	81	59 - 117	3	30
2,6-Dinitrotoluene	<0.18		1.49	1.20		mg/Kg	☼	80	57 - 118	5	30
2-Nitrophenol	<0.36		1.49	1.15		mg/Kg	☼	77	58 - 121	7	30
3-Nitroaniline	<0.36		1.49	1.03		mg/Kg	☼	69	20 - 144	6	30
Dimethyl phthalate	<0.18		1.49	1.18		mg/Kg	☼	79	60 - 112	6	30
2,4-Dinitrophenol	<0.74	F1	2.99	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.036		1.49	1.08		mg/Kg	☼	72	57 - 116	4	30
2,4-Dinitrotoluene	<0.18		1.49	1.17		mg/Kg	☼	78	59 - 119	5	30
Acenaphthene	<0.036		1.49	1.13		mg/Kg	☼	75	52 - 113	5	30
Dibenzofuran	<0.18		1.49	1.17		mg/Kg	☼	79	59 - 110	6	30
4-Nitrophenol	<0.74		2.99	2.34		mg/Kg	☼	78	32 - 123	7	30
Fluorene	<0.036		1.49	1.19		mg/Kg	☼	80	56 - 115	5	30
4-Nitroaniline	<0.36		1.49	1.59		mg/Kg	☼	106	55 - 146	0	30
4-Bromophenyl phenyl ether	<0.18		1.49	1.26		mg/Kg	☼	84	61 - 124	1	30
Hexachlorobenzene	<0.074		1.49	1.20		mg/Kg	☼	80	62 - 126	2	30
Diethyl phthalate	<0.18		1.49	1.22		mg/Kg	☼	82	58 - 117	4	30
4-Chlorophenyl phenyl ether	<0.18		1.49	1.21		mg/Kg	☼	81	61 - 111	5	30
Pentachlorophenol	<0.74	F2	2.99	1.21	F2	mg/Kg	☼	40	12 - 116	45	30
N-Nitrosodiphenylamine	<0.18		1.49	1.24		mg/Kg	☼	83	62 - 117	1	30
4,6-Dinitro-2-methylphenol	<0.74	F1	2.99	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.032	J	1.49	1.23		mg/Kg	☼	80	58 - 125	3	30
Anthracene	0.0074	J	1.49	1.20		mg/Kg	☼	80	57 - 118	3	30
Carbazole	<0.18		1.49	1.38		mg/Kg	☼	93	65 - 137	2	30
Di-n-butyl phthalate	<0.18		1.49	1.28		mg/Kg	☼	85	61 - 123	1	30
Fluoranthene	0.043		1.49	1.11		mg/Kg	☼	72	61 - 124	5	30
Pyrene	0.084	F1	1.49	2.06	F1	mg/Kg	☼	132	60 - 115	4	30
Butyl benzyl phthalate	<0.18	F1	1.49	2.07	F1	mg/Kg	☼	139	61 - 115	2	30
Benzo[a]anthracene	0.028	J	1.49	1.23		mg/Kg	☼	80	63 - 115	2	30
Chrysene	0.044		1.49	1.20		mg/Kg	☼	78	63 - 118	4	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121429-1 MSD
Matrix: Solid
Analysis Batch: 366484

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 366393

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
3,3'-Dichlorobenzidine	<0.18	F1	1.49	0.667		mg/Kg	☼	45	40 - 110	20	30
Bis(2-ethylhexyl) phthalate	<0.18	F1	1.49	2.00	F1	mg/Kg	☼	134	62 - 117	0	30
Di-n-octyl phthalate	<0.18	F1	1.49	0.742	F1	mg/Kg	☼	50	58 - 129	2	30
Benzo[b]fluoranthene	0.067		1.49	1.59		mg/Kg	☼	102	61 - 123	8	30
Benzo[k]fluoranthene	0.015	J	1.49	1.50		mg/Kg	☼	99	59 - 125	11	30
Benzo[a]pyrene	0.042		1.49	1.28		mg/Kg	☼	83	64 - 122	10	30
Indeno[1,2,3-cd]pyrene	0.024	J F1	1.49	0.717	F1	mg/Kg	☼	46	50 - 149	6	30
Dibenz(a,h)anthracene	<0.036	F1	1.49	0.750	F1	mg/Kg	☼	50	61 - 134	3	30
Benzo[g,h,i]perylene	<0.036	F1	1.49	0.650	F1	mg/Kg	☼	43	55 - 134	4	30
3 & 4 Methylphenol	<0.18		1.49	1.38		mg/Kg	☼	93	55 - 124	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	96		40 - 130
Phenol-d5	86		36 - 123
Nitrobenzene-d5	77		33 - 124
2-Fluorobiphenyl	75		42 - 115
2,4,6-Tribromophenol	93		25 - 130
Terphenyl-d14	152	X	25 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-365149/1-A
Matrix: Solid
Analysis Batch: 365225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365149

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.017		0.017	0.0059	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1221	<0.017		0.017	0.0073	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1232	<0.017		0.017	0.0073	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1242	<0.017		0.017	0.0055	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1248	<0.017		0.017	0.0066	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1254	<0.017		0.017	0.0036	mg/Kg		12/14/16 16:07	12/15/16 09:27	1
PCB-1260	<0.017		0.017	0.0082	mg/Kg		12/14/16 16:07	12/15/16 09:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		41 - 124	12/14/16 16:07	12/15/16 09:27	1
DCB Decachlorobiphenyl	111		47 - 127	12/14/16 16:07	12/15/16 09:27	1

Lab Sample ID: LCS 500-365149/2-A
Matrix: Solid
Analysis Batch: 365225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365149

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
PCB-1016	0.167	0.161		mg/Kg		97	60 - 118	
PCB-1260	0.167	0.173		mg/Kg		104	66 - 125	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-365149/2-A
Matrix: Solid
Analysis Batch: 365225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365149

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	94		41 - 124
DCB Decachlorobiphenyl	103		47 - 127

Lab Sample ID: 500-121429-11 MS
Matrix: Solid
Analysis Batch: 365225

Client Sample ID: 1314V3-06-B04 (0-5.2)
Prep Type: Total/NA
Prep Batch: 365149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	<0.018		0.178	0.200		mg/Kg	☼	112	60 - 118
PCB-1260	0.021		0.178	0.192		mg/Kg	☼	96	66 - 125

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	98		41 - 124
DCB Decachlorobiphenyl	94		47 - 127

Lab Sample ID: 500-121429-11 MSD
Matrix: Solid
Analysis Batch: 365225

Client Sample ID: 1314V3-06-B04 (0-5.2)
Prep Type: Total/NA
Prep Batch: 365149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	<0.018		0.176	0.184		mg/Kg	☼	104	60 - 118	8	30
PCB-1260	0.021		0.176	0.216		mg/Kg	☼	111	66 - 125	12	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	100		41 - 124
DCB Decachlorobiphenyl	97		47 - 127

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-365974/2-A
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365974

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0464		mg/L		93	80 - 120
Lead	0.100	0.0949		mg/L		95	80 - 120
Manganese	0.500	0.496		mg/L		99	80 - 120
Nickel	0.500	0.469		mg/L		94	80 - 120
Zinc	0.500	0.465		mg/L		93	80 - 120

Lab Sample ID: LCS 500-365978/2-A
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365978

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.486	J	mg/L		97	80 - 120
Beryllium	0.0500	0.0489		mg/L		98	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-365978/2-A
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.939		mg/L		94	80 - 120
Cadmium	0.0500	0.0464		mg/L		93	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.466		mg/L		93	80 - 120
Iron	1.00	0.959		mg/L		96	80 - 120
Lead	0.100	0.0945		mg/L		94	80 - 120
Manganese	0.500	0.508		mg/L		102	80 - 120
Nickel	0.500	0.466		mg/L		93	80 - 120
Selenium	0.100	0.0876		mg/L		88	80 - 120
Silver	0.0500	0.0466		mg/L		93	80 - 120
Zinc	0.500	0.468	J	mg/L		94	80 - 120

Lab Sample ID: MB 500-366082/1-A
Matrix: Solid
Analysis Batch: 366305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Barium	<1.0		1.0	0.18	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Boron	<5.0		5.0	0.70	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Calcium	<20		20	6.4	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Chromium	0.235	J	1.0	0.17	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Copper	<1.0		1.0	0.22	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Iron	<20		20	7.7	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Lead	<0.50		0.50	0.25	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Magnesium	<10		10	4.1	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Potassium	<50		50	8.2	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Silver	<0.50		0.50	0.12	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Sodium	<100		100	13	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/21/16 08:24	12/21/16 21:39	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/21/16 08:24	12/21/16 21:39	1

Lab Sample ID: LCS 500-366082/2-A
Matrix: Solid
Analysis Batch: 366305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.9		mg/Kg		92	80 - 120
Arsenic	10.0	9.43		mg/Kg		94	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	5.00		mg/Kg		100	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-366082/2-A
Matrix: Solid
Analysis Batch: 366305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	100	87.1		mg/Kg		87	80 - 120
Cadmium	5.00	4.77		mg/Kg		95	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Chromium	20.0	20.6		mg/Kg		103	80 - 120
Cobalt	50.0	49.8		mg/Kg		100	80 - 120
Copper	25.0	25.4		mg/Kg		102	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	9.78		mg/Kg		98	80 - 120
Magnesium	1000	970		mg/Kg		97	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	956		mg/Kg		96	80 - 120
Selenium	10.0	8.91		mg/Kg		89	80 - 120
Silver	5.00	4.64		mg/Kg		93	80 - 120
Sodium	1000	989		mg/Kg		99	80 - 120
Thallium	10.0	9.34		mg/Kg		93	80 - 120
Vanadium	50.0	50.8		mg/Kg		102	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

Lab Sample ID: 500-121429-1 MS
Matrix: Solid
Analysis Batch: 366305

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 366082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	1.5	F1	22.2	5.56	F1	mg/Kg	☼	18	75 - 125
Arsenic	6.0		4.45	10.5		mg/Kg	☼	103	75 - 125
Barium	62	F1	89.0	120	F1	mg/Kg	☼	66	75 - 125
Beryllium	0.50		2.22	2.30		mg/Kg	☼	81	75 - 125
Boron	5.2	F1	44.5	31.2	F1	mg/Kg	☼	58	75 - 125
Cadmium	0.16	F1	2.22	1.73	F1	mg/Kg	☼	70	75 - 125
Chromium	11	B	8.90	18.7		mg/Kg	☼	81	75 - 125
Cobalt	8.4		22.2	30.5		mg/Kg	☼	100	75 - 125
Copper	15	F1	11.1	21.3	F1	mg/Kg	☼	60	75 - 125
Iron	17000		44.5	18800	4	mg/Kg	☼	3780	75 - 125
Lead	65		4.45	64.6	4	mg/Kg	☼	-7	75 - 125
Magnesium	7200	F2	445	7530	4	mg/Kg	☼	63	75 - 125
Manganese	450		22.2	416	4	mg/Kg	☼	-143	75 - 125
Nickel	19		22.2	40.4		mg/Kg	☼	98	75 - 125
Potassium	700	F1	445	1220		mg/Kg	☼	117	75 - 125
Selenium	0.41	J F1	4.45	3.23	F1	mg/Kg	☼	63	75 - 125
Silver	<0.24		2.22	1.66		mg/Kg	☼	75	75 - 125
Sodium	2200		445	2500	4	mg/Kg	☼	65	75 - 125
Thallium	<0.48		4.45	3.66		mg/Kg	☼	82	75 - 125
Vanadium	19		22.2	40.7		mg/Kg	☼	96	75 - 125
Zinc	74	F1	22.2	86.8	F1	mg/Kg	☼	59	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121429-1 MS

Matrix: Solid

Analysis Batch: 366445

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	47000	F2	445	25500	4	mg/Kg	☼	-4868	75 - 125

Lab Sample ID: 500-121429-1 MSD

Matrix: Solid

Analysis Batch: 366305

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	1.5	F1	23.2	6.09	F1	mg/Kg	☼	20	75 - 125	9	20
Arsenic	6.0		4.65	9.92		mg/Kg	☼	85	75 - 125	6	20
Barium	62	F1	93.0	122	F1	mg/Kg	☼	65	75 - 125	2	20
Beryllium	0.50		2.32	2.42		mg/Kg	☼	83	75 - 125	5	20
Boron	5.2	F1	46.5	36.0	F1	mg/Kg	☼	66	75 - 125	14	20
Cadmium	0.16	F1	2.32	1.93		mg/Kg	☼	76	75 - 125	11	20
Chromium	11	B	9.30	20.3		mg/Kg	☼	95	75 - 125	8	20
Cobalt	8.4		23.2	31.4		mg/Kg	☼	99	75 - 125	3	20
Copper	15	F1	11.6	22.8	F1	mg/Kg	☼	70	75 - 125	7	20
Iron	17000		46.5	16000	4	mg/Kg	☼	-2305	75 - 125	16	20
Lead	65		4.65	54.9	4	mg/Kg	☼	-216	75 - 125	16	20
Magnesium	7200	F2	465	13900	4 F2	mg/Kg	☼	1432	75 - 125	59	20
Manganese	450		23.2	383	4	mg/Kg	☼	-278	75 - 125	8	20
Nickel	19		23.2	39.5		mg/Kg	☼	90	75 - 125	2	20
Potassium	700	F1	465	1340	F1	mg/Kg	☼	139	75 - 125	10	20
Selenium	0.41	J F1	4.65	3.43	F1	mg/Kg	☼	65	75 - 125	6	20
Silver	<0.24		2.32	1.82		mg/Kg	☼	78	75 - 125	9	20
Sodium	2200		465	2600	4	mg/Kg	☼	85	75 - 125	4	20
Thallium	<0.48		4.65	3.92		mg/Kg	☼	84	75 - 125	7	20
Vanadium	19		23.2	42.1		mg/Kg	☼	98	75 - 125	3	20
Zinc	74	F1	23.2	94.8		mg/Kg	☼	91	75 - 125	9	20

Lab Sample ID: 500-121429-1 MSD

Matrix: Solid

Analysis Batch: 366445

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	47000	F2	465	43100	4 F2	mg/Kg	☼	-886	75 - 125	51	20

Lab Sample ID: 500-121429-1 DU

Matrix: Solid

Analysis Batch: 366305

Client Sample ID: 1314V3-24-B09 (0-4)

Prep Type: Total/NA

Prep Batch: 366082

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	1.5	F1	7.16	F3	mg/Kg	☼	131	20
Arsenic	6.0		7.48	F3	mg/Kg	☼	23	20
Barium	62	F1	46.6	F3	mg/Kg	☼	28	20
Beryllium	0.50		0.428		mg/Kg	☼	16	20
Boron	5.2	F1	3.71	F5	mg/Kg	☼	34	20
Cadmium	0.16	F1	0.0842	J F5	mg/Kg	☼	64	20
Chromium	11	B	9.76		mg/Kg	☼	16	20
Cobalt	8.4		6.31	F3	mg/Kg	☼	28	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121429-1 DU
Matrix: Solid
Analysis Batch: 366305

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 366082

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	15	F1	11.1	F3	mg/Kg	☼	28	20
Iron	17000		12700	F3	mg/Kg	☼	29	20
Lead	65		175	F3	mg/Kg	☼	92	20
Magnesium	7200	F2	6090		mg/Kg	☼	17	20
Manganese	450		333	F3	mg/Kg	☼	29	20
Nickel	19		13.3	F3	mg/Kg	☼	33	20
Potassium	700	F1	631		mg/Kg	☼	10	20
Selenium	0.41	J F1	0.239	J F5	mg/Kg	☼	54	20
Silver	<0.24		<0.22		mg/Kg	☼	NC	20
Sodium	2200		2130		mg/Kg	☼	4	20
Thallium	<0.48		<0.44		mg/Kg	☼	NC	20
Vanadium	19		17.1		mg/Kg	☼	12	20
Zinc	74	F1	59.0	F3	mg/Kg	☼	22	20

Lab Sample ID: 500-121429-1 DU
Matrix: Solid
Analysis Batch: 366445

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 366082

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	47000	F2	26200	F3	mg/Kg	☼	57	20

Lab Sample ID: LB 500-365818/1-C
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365978

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/20/16 14:37	12/21/16 19:46	1
Boron	<0.50		0.50	0.050	mg/L		12/20/16 14:37	12/21/16 19:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:37	12/21/16 19:46	1
Chromium	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:46	1
Cobalt	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:46	1
Iron	<0.40		0.40	0.20	mg/L		12/20/16 14:37	12/21/16 19:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:37	12/21/16 19:46	1
Manganese	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:46	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:46	1
Selenium	<0.050		0.050	0.020	mg/L		12/20/16 14:37	12/21/16 19:46	1
Silver	<0.025		0.025	0.010	mg/L		12/20/16 14:37	12/21/16 19:46	1
Zinc	0.0651	J	0.50	0.020	mg/L		12/20/16 14:37	12/21/16 19:46	1

Lab Sample ID: 500-121429-17 MS
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: TCLP
Prep Batch: 365978

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Barium	0.46	J	0.500	0.754		mg/L		58	50 - 150	
Beryllium	<0.0040		0.0500	0.0481		mg/L		96	50 - 150	
Boron	0.050	J	1.00	1.00		mg/L		95	50 - 150	
Cadmium	0.016		0.0500	0.0482		mg/L		64	50 - 150	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121429-17 MS
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: TCLP
Prep Batch: 365978

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chromium	<0.025		0.200	0.187		mg/L		93	50 - 150	
Cobalt	0.016	J	0.500	0.437		mg/L		84	50 - 150	
Iron	<0.40		1.00	0.975		mg/L		97	50 - 150	
Lead	<0.0075		0.100	0.0948		mg/L		95	50 - 150	
Manganese	6.2		0.500	0.776	4	mg/L		-1092	50 - 150	
Nickel	0.21	F1	0.500	0.448	F1	mg/L		47	50 - 150	
Selenium	<0.050		0.100	0.0990		mg/L		99	50 - 150	
Silver	<0.025		0.0500	0.0496		mg/L		99	50 - 150	
Zinc	0.22	J B F1	0.500	1.00	F1	mg/L		158	50 - 150	

Lab Sample ID: 500-121429-17 DU
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: TCLP
Prep Batch: 365978

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.46	J	0.471	J	mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.050	J	0.0507	J	mg/L		1	20
Cadmium	0.016		0.0163		mg/L		1	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.016	J	0.0158	J	mg/L		1	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	6.2		6.31		mg/L		1	20
Nickel	0.21	F1	0.218		mg/L		1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.22	J B F1	0.218	J	mg/L		0.6	20

Lab Sample ID: LB 500-365801/1-B
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 365974

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/20/16 14:34	12/22/16 02:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/20/16 14:34	12/22/16 02:34	1
Manganese	<0.025		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 02:34	1
Nickel	<0.025		0.025	0.010	mg/L		12/20/16 14:34	12/22/16 02:34	1
Zinc	<0.10		0.10	0.020	mg/L		12/20/16 14:34	12/22/16 02:34	1

Lab Sample ID: 500-121429-17 MS
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: SPLP East
Prep Batch: 365974

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Cadmium	<0.0050		0.0500	0.0484		mg/L		97	50 - 150	
Lead	0.047		0.100	0.151		mg/L		104	50 - 150	
Manganese	0.26		0.500	0.830		mg/L		114	50 - 150	
Nickel	0.015	J	0.500	0.503		mg/L		98	50 - 150	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121429-17 MS
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: SPLP East
Prep Batch: 365974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	0.27		0.500	0.776		mg/L		102	50 - 150

Lab Sample ID: 500-121429-17 DU
Matrix: Solid
Analysis Batch: 366307

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: SPLP East
Prep Batch: 365974

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Lead	0.047		0.0507		mg/L		7	20
Manganese	0.26		0.273		mg/L		4	20
Nickel	0.015	J	0.0152	J	mg/L		3	20
Zinc	0.27		0.280		mg/L		5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-365974/2-A
Matrix: Solid
Analysis Batch: 366301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.451		mg/L		90	80 - 120

Lab Sample ID: LCS 500-365978/2-A
Matrix: Solid
Analysis Batch: 366147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.440		mg/L		88	80 - 120
Thallium	0.100	0.0922		mg/L		92	80 - 120

Lab Sample ID: LB 500-365818/1-C
Matrix: Solid
Analysis Batch: 366147

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365978

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:37	12/21/16 11:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/20/16 14:37	12/21/16 11:40	1

Lab Sample ID: 500-121429-17 MS
Matrix: Solid
Analysis Batch: 366147

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: TCLP
Prep Batch: 365978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.433		mg/L		87	50 - 150
Thallium	<0.0020		0.100	0.0974		mg/L		97	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-121429-17 DU
Matrix: Solid
Analysis Batch: 366147

Client Sample ID: 1314V3-06-B07 (0-4.3)
Prep Type: TCLP
Prep Batch: 365978

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-365801/1-B
Matrix: Solid
Analysis Batch: 366301

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 365974

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/20/16 14:34	12/21/16 15:23	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-365965/12-A
Matrix: Solid
Analysis Batch: 366131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365965

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:30	1

Lab Sample ID: LCS 500-365965/13-A
Matrix: Solid
Analysis Batch: 366131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365965
%Rec. Limits

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: LB 500-365818/1-B
Matrix: Solid
Analysis Batch: 366131

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365965

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/20/16 14:00	12/21/16 11:33	1

Lab Sample ID: 500-121429-1 MS
Matrix: Solid
Analysis Batch: 366131

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: TCLP
Prep Batch: 365965
%Rec. Limits

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000984		mg/L		98	50 - 150

Lab Sample ID: 500-121429-1 DU
Matrix: Solid
Analysis Batch: 366131

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: TCLP
Prep Batch: 365965

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-365823/12-A
Matrix: Solid
Analysis Batch: 365953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/20/16 07:00	12/20/16 12:20	1

Lab Sample ID: LCS 500-365823/13-A
Matrix: Solid
Analysis Batch: 365953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.186		mg/Kg		111	80 - 120

Lab Sample ID: 500-121429-1 MS
Matrix: Solid
Analysis Batch: 365953

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 365823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.092		0.0939	0.184		mg/Kg	☼	98	75 - 125

Lab Sample ID: 500-121429-1 MSD
Matrix: Solid
Analysis Batch: 365953

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 365823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.092		0.0845	0.165		mg/Kg	☼	87	75 - 125	11	20

Lab Sample ID: 500-121429-1 DU
Matrix: Solid
Analysis Batch: 365953

Client Sample ID: 1314V3-24-B09 (0-4)
Prep Type: Total/NA
Prep Batch: 365823

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.092		0.0904		mg/Kg	☼	1	20

Method: 9045D - pH

Lab Sample ID: 500-121429-11 DU
Matrix: Solid
Analysis Batch: 366167

Client Sample ID: 1314V3-06-B04 (0-5.2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.3		8.3		SU		0	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 02:47	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 19:59	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 11:47	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366026		BJJ	TAL CHI
					(Start)	12/20/16 21:16		
					(End)	12/20/16 21:22		
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B09 (0-4)

Lab Sample ID: 500-121429-1

Date Collected: 12/13/16 10:50

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 13:13	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 21:37	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 21:47	KML	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366445	12/22/16 18:47	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 12:42	MJD	TAL CHI

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 02:54	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:06	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 11:50	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366026	(Start) 12/20/16 21:22 (End) 12/20/16 21:29	JBK	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B10 (0-5)

Lab Sample ID: 500-121429-2

Date Collected: 12/13/16 14:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 13:37	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 21:08	AJD	TAL CHI
Total/NA	Prep	3541	DL		366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	366664	12/27/16 12:09	GES	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 22:21	KML	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366445	12/22/16 19:07	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 12:51	MJD	TAL CHI

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:01	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:28	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 11:54	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	12/21/16 11:53 (Start) 12/21/16 11:59 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B01 (0-5.8)

Lab Sample ID: 500-121429-3

Date Collected: 12/13/16 15:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365428	12/16/16 12:22	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 19:11	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366305	12/21/16 22:26	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 12:53	MJD	TAL CHI

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:07	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:35	KML	TAL CHI
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6020A		1	366301	12/21/16 15:30	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 11:57	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	12/21/16 11:59 (Start) 12/21/16 12:05 (End)	SMO	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B04 (0-5)

Lab Sample ID: 500-121429-4

Date Collected: 12/13/16 16:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 14:26	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 17:44	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366305	12/21/16 22:30	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		5	365953	12/20/16 13:56	MJD	TAL CHI

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:30	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:42	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:00	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 12:05		
					(End)	12/21/16 12:11		
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B04 (5-10)

Lab Sample ID: 500-121429-5

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 14:51	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 14:49	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 22:34	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 12:58	MJD	TAL CHI

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:37	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:49	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:11	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 12:11 (End) 12/21/16 12:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B04 (5-10)D

Lab Sample ID: 500-121429-6

Date Collected: 12/13/16 16:10

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 15:16	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 15:18	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 22:39	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:00	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:44	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 20:55	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:14	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 12:17 (End) 12/21/16 12:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B03 (0-5)

Lab Sample ID: 500-121429-7

Date Collected: 12/13/16 16:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 15:40	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 17:14	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366305	12/21/16 22:43	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:07	MJD	TAL CHI

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:50	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:02	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366147	12/21/16 12:18	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 12:23 (End) 12/21/16 12:29	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B03 (5-10)

Lab Sample ID: 500-121429-8

Date Collected: 12/13/16 16:40

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 16:05	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 15:47	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 22:48	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:10	MJD	TAL CHI

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 03:57	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:09	KML	TAL CHI
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6020A		1	366301	12/21/16 15:34	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:21	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:53	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	366167	12/21/16 12:29 (Start) 12/21/16 12:35 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-24-B02 (0-5)

Lab Sample ID: 500-121429-9

Date Collected: 12/13/16 17:15

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 16:30	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 19:12	GES	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366305	12/21/16 22:52	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:12	MJD	TAL CHI

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:04	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:16	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:25	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	12/21/16 12:35 (Start) 12/21/16 12:41 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-24-B02 (5-10)

Lab Sample ID: 500-121429-10

Date Collected: 12/13/16 17:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 16:55	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 16:16	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366305	12/21/16 22:57	KML	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:14	MJD	TAL CHI

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:11	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:23	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:28	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 12:41 (End) 12/21/16 12:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 17:20	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 18:13	AJD	TAL CHI
Total/NA	Prep	3541			365149	12/14/16 16:07	JP1	TAL CHI
Total/NA	Analysis	8082A		1	365225	12/15/16 10:43	PJG	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366445	12/22/16 19:11	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B04 (0-5.2)

Lab Sample ID: 500-121429-11

Date Collected: 12/13/16 11:45

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366445	12/22/16 19:15	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:17	MJD	TAL CHI

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:17	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:29	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:31	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 12:54		
					(End)	12/21/16 13:00		
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B09 (0-2)

Lab Sample ID: 500-121429-12

Date Collected: 12/13/16 12:05

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 17:45	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		5	366664	12/27/16 17:32	GES	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366445	12/22/16 19:19	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:19	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:24	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:52	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:35	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 11:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 13:00 (End) 12/21/16 13:06	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B05 (0-8)

Lab Sample ID: 500-121429-13

Date Collected: 12/13/16 12:25

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365218	12/15/16 18:10	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 16:45	AJD	TAL CHI
Total/NA	Prep	3541			365149	12/14/16 16:07	JP1	TAL CHI
Total/NA	Analysis	8082A		1	365225	12/15/16 12:31	PJG	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366445	12/22/16 19:23	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:21	MJD	TAL CHI

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:31	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 21:59	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:38	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 12:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 13:06 (End) 12/21/16 13:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B06 (0-4)

Lab Sample ID: 500-121429-14

Date Collected: 12/13/16 12:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365428	12/16/16 12:48	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 18:42	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366445	12/22/16 19:35	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:23	MJD	TAL CHI

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 04:54	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 22:05	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:42	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 12:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	366167	12/21/16 13:12 (Start) 12/21/16 13:18 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B08 (0-5)

Lab Sample ID: 500-121429-15

Date Collected: 12/13/16 13:30

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365428	12/16/16 13:14	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 19:40	AJD	TAL CHI
Total/NA	Prep	3541	DL		366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	366664	12/27/16 11:19	GES	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366445	12/22/16 19:39	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:26	MJD	TAL CHI

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 05:00	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 22:12	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:52	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 12:06	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	12/21/16 13:18 (Start) 12/21/16 13:24 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B08 (5-10)

Lab Sample ID: 500-121429-16

Date Collected: 12/13/16 13:35

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365428	12/16/16 13:38	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 20:10	AJD	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366445	12/22/16 19:43	PJ1	TAL CHI
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366566	12/23/16 12:54	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:28	MJD	TAL CHI

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			365801	12/19/16 11:00	EEN	TAL CHI
SPLP East	Prep	3010A			365974	12/20/16 14:34	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366307	12/22/16 05:07	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6010B		1	366307	12/21/16 22:19	KML	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	3010A			365978	12/20/16 14:37	JNH	TAL CHI
TCLP	Analysis	6020A		1	366147	12/21/16 12:56	FXG	TAL CHI
TCLP	Leach	1311			365818	12/19/16 15:29	EEN	TAL CHI
TCLP	Prep	7470A			365965	12/20/16 14:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	366131	12/21/16 12:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 13:24 (End) 12/21/16 13:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365806	12/19/16 14:37	LWN	TAL CHI

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365249	12/14/16 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365428	12/16/16 14:04	DJD	TAL CHI
Total/NA	Prep	3541			366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366484	12/23/16 20:39	AJD	TAL CHI
Total/NA	Prep	3541	DL		366393	12/22/16 15:26	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	366664	12/27/16 11:44	GES	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Client Sample ID: 1314V3-06-B07 (0-4.3)

Lab Sample ID: 500-121429-17

Date Collected: 12/13/16 13:55

Matrix: Solid

Date Received: 12/14/16 10:30

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			366082	12/21/16 08:24	JEF	TAL CHI
Total/NA	Analysis	6010B		5	366445	12/22/16 19:47	PJ1	TAL CHI
Total/NA	Prep	7471B			365823	12/20/16 07:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	365953	12/20/16 13:35	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121429-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENT/

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5



500-121429 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121429
Chain of Custody Number: E846-35
Page _____ of _____
Temperature °C of Cooler: 20.49

Client EE		Client Project # 1009098.0096-01		Preservative							Preservative Key			
Project Name F74		Lab Project # 50012744		Parameter										
Project Location/State Rock Island County, IL		Lab PM D Wright												
Sampler S. Cooper														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total TAC	Metals	Temp/Spill TAC	Metals	P+/40 Solids	Comments
			Date	Time										
1		1314V3-24-B09(0-4)	12-13-16	1050	2	S	X	X	X	X	X			
2		1314V3-24-B10(0-5)	12-13-16	1445	2	S	X	X	X	X	X			
3		1314V3-24-B01(0-5B)	12-13-16	1570	2	S	X	X	X	X	X			
4		1314V3-24-B04(0-5)	12-13-16	1605	2	S	X	X	X	X	X			
5		1314V3-24-B04(5-10)	12-13-16	1610	2	S	X	X	X	X	X			
6		1314V3-24-B04(5-10) D	12-13-16	1610	2	S	X	X	X	X	X			
7		1314V3-24-B03(0-5)	12-13-16	1635	2	S	X	X	X	X	X			
8		1314V3-24-B03(5-10)	12-13-16	1640	2	S	X	X	X	X	X			
9		1314V3-24-B02(0-5)	12-13-16	1715	2	S	X	X	X	X	X			
10		1314V3-24-B02(5-10)	12-13-16	1730	2	S	X	X	X	X	X			

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By 	Company EE	Date 12-13-16	Time 1800	Received By 	Company FA-CTE	Date 12/14/16	Time 1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: **Fed-X**
Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121429

Chain of Custody Number: EEML-36

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments	
EE		1669008-0046-01										
Project Name: <u>F74</u>		Lab Project #: <u>50012744</u>										
Project Location/State: <u>Port Island, County, IL</u>		Lab PM: <u>D-Wright</u>										
Sampler: <u>S-Cooper</u>												
11		1314V3-06-B04 (0-2)	12-13-16	1145	2	S	X	X	X	X	X	
12		1314V3-06-B09 (0-2)	12-13-16	1205	2	S	X	X	X	X	X	
13		1314V3-06-B05 (0-8)	12-13-16	1225	2	S	X	X	X	X	X	
14		1314V3-06-B06 (0-4)	12-13-16	1255	2	S	X	X	X	X	X	
15		1314V3-06-B08 (0-5)	12-13-16	1330	2	S	X	X	X	X	X	
16		1314V3-06-B08 (5-10)	12-13-16	1335	2	S	X	X	X	X	X	
17		1314V3-06-B07 (0-4.3)	12-13-16	1355	2	S	X	X	X	X	X	
12-13-16												

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-13-16</u>	Time: <u>1000</u>	Received By: <u>[Signature]</u>	Company: <u>EA CRT</u>	Date: <u>12/14/16</u>	Time: <u>1030</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key:

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121429-1

Login Number: 121429

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0,4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121504-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/28/2016 11:27:05 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Job ID: 500-121504-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121504-1

Comments

No additional comments.

Receipt

The samples were received on 12/15/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.1° C and 5.0° C.

Received bottles for laboratory samples 5 and 6 with an ID prefix of 1314V3-24-B12. Chain of custody has 1314V3-24-B14. Samples logged in per bottles as samples 3 and 4 already have the prefix 1314V3-24-B14.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 3655926 recovered outside control limits for the following analytes: Carbon tetrachloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Surrogate recovery and/or Internal standard responses were outside of acceptance limits for the following samples: 1314V3-24-B12 (0-6) (500-121504-5) and 1314V3-24-B13 (0-6) (500-121504-7). Compounds associated with these internal standards have been flagged with a "*" in the data package. Re-analysis was performed with Internal standard responses and surrogate recoveries having concurring results. The best data were reported.

1314V3-24-B12 (0-6) (500-121504-5) and 1314V3-24-B13 (0-6) (500-121504-7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121504-E-1-T MS) and (500-121504-E-1-U MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with batch 500-366456 had results for Cadmium above the control limit. The laboratory blank (MB), laboratory control sample (LCS), and all other QC were within control limits. The associated samples had results below the reporting limit (RL) for Cadmium, therefore the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.023	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.023	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.021	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.023	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.41		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.084		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.63		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.62		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.31		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.33		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.42	F1	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.22		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.31		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.098	F1	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J F1	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11	F1	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	2.9	F1	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	18		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B F2	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	42	F1	0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	110		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4600		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	930	F1	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0	F1	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	F1	54	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	230		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.15	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.29	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.30		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.58		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.16	F1	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.5		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	9.2		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	6.4		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9400		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	210	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	660		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	300		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.037	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.061		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.040		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	7.5		1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	90		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	34000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1300		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	380	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6) (Continued)

Lab Sample ID: 500-121504-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	19		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	630		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.8		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Silver	0.099	J	0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	210		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.92		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J B	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0086		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.064		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.19		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.099	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	8500	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.2		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6500		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	610	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	940		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.96		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.024		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6) (Continued)

Lab Sample ID: 500-121504-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0098	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.021	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.060		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.040		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.091		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.072		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.083		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	15		1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.5	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	6600	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	26	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.4		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	40000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	280		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	4100	B	5.1	1.0	mg/Kg	10	☼	6010B	Total/NA
Nickel	7.9		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	390		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	2.1		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	5.1		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	74		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	170		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	1.8		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.39	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.41		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.21		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.056		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.091		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.091	J	0.21	0.077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.98	J	1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.26	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	3.2		3.2	0.45	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.064	J	0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.32	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	7.6		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9100		6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	600	B	0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	970		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		64	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.64	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.32	0.093	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.031	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.024		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0034		0.0020	0.00068	mg/Kg	1	☼	8260B	Total/NA
Xylenes, Total	0.0025	J	0.0040	0.00063	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.055		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.018	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.067		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.079		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.075		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	9.5		1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	7.1		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6) (Continued)

Lab Sample ID: 500-121504-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.16		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	9600	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	120		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	30000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	230		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	800	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	710		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.4		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Sodium	910		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.091	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.34		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.081		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Antimony	0.044		0.0060	0.0060	mg/L	1		6020A	TCLP
Antimony	0.012		0.0060	0.0060	mg/L	1		6020A	SPLP East
Mercury	0.13		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.91	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	95		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.2		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5100		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	830	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	770		28	4.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12) (Continued)

Lab Sample ID: 500-121504-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.67		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.079	J	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.8		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.87		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.077	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	3.5		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	36000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.91		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.80		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.068	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	7.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.065		0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA	
2-Methylnaphthalene	0.10		0.074	0.0068	mg/Kg	1	☼	8270D	Total/NA	
Acenaphthylene	0.013	J	0.037	0.0048	mg/Kg	1	☼	8270D	Total/NA	
Acenaphthene	0.0091	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA	
Dibenzofuran	0.045	J	0.18	0.043	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.0097	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.17		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA	
Anthracene	0.031	J	0.037	0.0061	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.15		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.16		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.069		0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.090		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.10		0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.037		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.061		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.027	J	0.037	0.0095	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.036	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.44	J	0.93	0.19	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	4.6		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA	
Barium	55		0.46	0.085	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.56		0.19	0.040	mg/Kg	1	☼	6010B	Total/NA	
Boron	8.6		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.35		0.093	0.027	mg/Kg	1	☼	6010B	Total/NA	
Calcium	26000	B	9.3	3.0	mg/Kg	1	☼	6010B	Total/NA	
Chromium	12	B	0.46	0.080	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	5.3		0.23	0.052	mg/Kg	1	☼	6010B	Total/NA	
Copper	15		0.46	0.10	mg/Kg	1	☼	6010B	Total/NA	
Iron	14000	B	9.3	3.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	14		0.23	0.12	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	13000		4.6	1.9	mg/Kg	1	☼	6010B	Total/NA	
Manganese	290	B	0.46	0.092	mg/Kg	1	☼	6010B	Total/NA	
Nickel	13		0.46	0.13	mg/Kg	1	☼	6010B	Total/NA	
Potassium	780		23	3.8	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.54		0.46	0.23	mg/Kg	1	☼	6010B	Total/NA	
Sodium	200		46	6.1	mg/Kg	1	☼	6010B	Total/NA	
Thallium	0.89		0.46	0.23	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	18		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA	
Zinc	66		0.93	0.29	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.99		0.50	0.050	mg/L	1		6010B	TCLP	
Boron	0.14	J B	0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0046	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP	
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP	
Lead	0.0080		0.0075	0.0075	mg/L	1		6010B	TCLP	
Manganese	8.0		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP	
Zinc	0.19	J	0.50	0.020	mg/L	1		6010B	TCLP	
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.036		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA	
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.13		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.21		0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.19		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.041		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.17	J	0.18	0.043	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.099		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.6		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.46		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.19		0.18	0.091	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.9		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.91		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.82		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.94		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.43		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.72		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.077		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.25		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	0.89	0.18	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.44	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.44	0.081	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.18	0.038	mg/Kg	1	☼	6010B	Total/NA
Boron	7.1		2.2	0.31	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42		0.089	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000	B	8.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.44	0.076	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.7		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.44	0.096	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	8.9	3.4	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		4.4	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	280	B	0.44	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.44	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	850		22	3.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45		0.44	0.22	mg/Kg	1	☼	6010B	Total/NA
Sodium	560		44	5.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.44	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.22	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		0.89	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.095	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0042	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.17		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.23		0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.020	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0072	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.076	J	0.19	0.044	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0089	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.030	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.090		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.057		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.084		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.043		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J	0.96	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	9.6	3.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	220	B	0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.93		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		48	6.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		0.96	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.83		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0079		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.84		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	9.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.35	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12) (Continued)

Lab Sample ID: 500-121504-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	0.0091	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0072	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	0.92	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.5		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.46	0.085	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.18	0.040	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Calcium	3300	B	9.2	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.46	0.079	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.23	0.052	mg/Kg	1	☼	6010B	Total/NA
Copper	8.1		0.46	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	9.2	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	6.6		0.23	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		4.6	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	210	B	0.46	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.3		0.46	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	580		23	3.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		46	6.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.70		0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.23	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		0.92	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	1.3		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.039		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.059	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.089		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.019	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.088		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.086		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6) (Continued)

Lab Sample ID: 500-121504-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.047		0.036	0.0049	mg/Kg	1	*	☼	8270D	Total/NA
Chrysene	0.056		0.036	0.0099	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.085		0.036	0.0079	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.036	0.011	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[a]pyrene	0.052		0.036	0.0070	mg/Kg	1	*	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.036	0.0094	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.036	0.012	mg/Kg	1	*	☼	8270D	Total/NA
Antimony	0.33	J	1.0	0.21	mg/Kg	1	*	☼	6010B	Total/NA
Arsenic	4.5		0.51	0.23	mg/Kg	1	*	☼	6010B	Total/NA
Barium	52		0.51	0.093	mg/Kg	1	*	☼	6010B	Total/NA
Beryllium	0.50		0.20	0.044	mg/Kg	1	*	☼	6010B	Total/NA
Boron	4.6		2.5	0.35	mg/Kg	1	*	☼	6010B	Total/NA
Cadmium	0.20		0.10	0.029	mg/Kg	1	*	☼	6010B	Total/NA
Calcium	80000	B	100	33	mg/Kg	10	*	☼	6010B	Total/NA
Chromium	11	B	0.51	0.087	mg/Kg	1	*	☼	6010B	Total/NA
Cobalt	5.4		0.25	0.057	mg/Kg	1	*	☼	6010B	Total/NA
Copper	15		0.51	0.11	mg/Kg	1	*	☼	6010B	Total/NA
Iron	13000	B	10	3.9	mg/Kg	1	*	☼	6010B	Total/NA
Lead	19		0.25	0.13	mg/Kg	1	*	☼	6010B	Total/NA
Magnesium	19000		5.1	2.1	mg/Kg	1	*	☼	6010B	Total/NA
Manganese	370	B	0.51	0.10	mg/Kg	1	*	☼	6010B	Total/NA
Nickel	13		0.51	0.14	mg/Kg	1	*	☼	6010B	Total/NA
Potassium	930		25	4.1	mg/Kg	1	*	☼	6010B	Total/NA
Selenium	0.34	J	0.51	0.25	mg/Kg	1	*	☼	6010B	Total/NA
Sodium	340		51	6.7	mg/Kg	1	*	☼	6010B	Total/NA
Thallium	0.89		0.51	0.25	mg/Kg	1	*	☼	6010B	Total/NA
Vanadium	19		0.25	0.074	mg/Kg	1	*	☼	6010B	Total/NA
Zinc	51		1.0	0.32	mg/Kg	1	*	☼	6010B	Total/NA
Barium	0.76		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.074	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0030	J ^	0.0050	0.0020	mg/L	1			6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.076	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.039		0.017	0.0091	mg/Kg	1	*	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.037	0.0057	mg/Kg	1	*	☼	8270D	Total/NA
2-Methylnaphthalene	0.019	J	0.074	0.0068	mg/Kg	1	*	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.037	0.0049	mg/Kg	1	*	☼	8270D	Total/NA
Phenanthrene	0.069		0.037	0.0051	mg/Kg	1	*	☼	8270D	Total/NA
Anthracene	0.016	J	0.037	0.0062	mg/Kg	1	*	☼	8270D	Total/NA
Fluoranthene	0.068		0.037	0.0068	mg/Kg	1	*	☼	8270D	Total/NA
Pyrene	0.074		0.037	0.0073	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[a]anthracene	0.037		0.037	0.0050	mg/Kg	1	*	☼	8270D	Total/NA
Chrysene	0.048		0.037	0.010	mg/Kg	1	*	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (6-12) (Continued)

Lab Sample ID: 500-121504-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.061		0.037	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.037	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.037	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.0096	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.39	J	1.1	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	6.2		0.57	0.26	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	52		0.57	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.46		0.23	0.049	mg/Kg	1	☼	☼	6010B	Total/NA
Boron	6.2		2.8	0.40	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	54000	B	11	3.6	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	10	B	0.57	0.097	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	4.6		0.28	0.064	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	15		0.57	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	13000	B	11	4.4	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	18000		5.7	2.3	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	320	B	0.57	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	11		0.57	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	760		28	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.37	J	0.57	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	710		57	7.5	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	0.76		0.57	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	78		1.1	0.36	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.81		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.098	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0047	J ^	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	6.3		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.096	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.020		0.019	0.010	mg/Kg	1	☼	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.0068	J	0.036	0.0055	mg/Kg	1	☼	☼	8270D	Total/NA
2-Methylnaphthalene	0.0081	J	0.072	0.0066	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.0060	J	0.036	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.055		0.036	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.012	J	0.036	0.0060	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.064		0.036	0.0067	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.068		0.036	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.036	0.0048	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.032	J	0.036	0.0098	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037		0.036	0.0078	mg/Kg	1	☼	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18) (Continued)

Lab Sample ID: 500-121504-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.026	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.012	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	0.95	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.47	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.39		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.095	0.027	mg/Kg	1	☼	6010B	Total/NA
Calcium	35000	B	9.5	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.7	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	9.5	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	290	B	0.47	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	760		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.86		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J ^	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	7.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0084	J	0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.059		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.059		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.068		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.087		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.086		0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.065		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8) (Continued)

Lab Sample ID: 500-121504-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.2		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	2.4	J	2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	5000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	270	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	89		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.99		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J B	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0079		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.042		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.42		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.6	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	2.8		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6900		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	300	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	320		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		51	6.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12) (Continued)

Lab Sample ID: 500-121504-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.90		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0079	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	4.5		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.083	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	38000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	980		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	89		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.88		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.86		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.083		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12) (Continued)

Lab Sample ID: 500-121504-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	0.030	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.016	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.24	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	3.1		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA	
Barium	73		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.42		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA	
Boron	2.1	J	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA	
Calcium	7500	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA	
Chromium	11	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	4.4		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA	
Copper	8.2		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	11000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA	
Lead	5.1		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	4500		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA	
Manganese	280	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	9.7		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA	
Potassium	680		28	4.5	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.49	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA	
Sodium	72		55	7.3	mg/Kg	1	☼	6010B	Total/NA	
Thallium	0.81		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	15		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA	
Zinc	33		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.81		0.50	0.050	mg/L	1		6010B	TCLP	
Boron	0.075	J B	0.50	0.050	mg/L	1		6010B	TCLP	
Manganese	0.81		0.025	0.010	mg/L	1		6010B	TCLP	
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.018		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA	
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121504-1	1314V3-24-B11 (0-6)	Solid	12/14/16 08:35	12/15/16 10:00
500-121504-2	1314V3-24-B11 (6-12)	Solid	12/14/16 08:40	12/15/16 10:00
500-121504-3	1314V3-24-B14 (0-6)	Solid	12/14/16 09:10	12/15/16 10:00
500-121504-4	1314V3-24-B14 (6-12)	Solid	12/14/16 09:15	12/15/16 10:00
500-121504-5	1314V3-24-B12 (0-6)	Solid	12/14/16 09:35	12/15/16 10:00
500-121504-6	1314V3-24-B12 (6-12)	Solid	12/14/16 09:40	12/15/16 10:00
500-121504-7	1314V3-24-B13 (0-6)	Solid	12/14/16 10:05	12/15/16 10:00
500-121504-8	1314V3-24-B13 (6-12)	Solid	12/14/16 10:10	12/15/16 10:00
500-121504-9	1314V3-01-B09 (0-6)	Solid	12/14/16 11:15	12/15/16 10:00
500-121504-10	1314V3-01-B09 (6-11.6)	Solid	12/14/16 11:25	12/15/16 10:00
500-121504-11	1314V3-18-B06 (0-6)	Solid	12/14/16 11:55	12/15/16 10:00
500-121504-12	1314V3-18-B06 (6-12)	Solid	12/14/16 12:05	12/15/16 10:00
500-121504-13	1314V3-18-B06 (12-17)	Solid	12/14/16 12:10	12/15/16 10:00
500-121504-14	1314V3-18-B01 (0-6)	Solid	12/14/16 12:40	12/15/16 10:00
500-121504-15	1314V3-18-B01 (6-12)	Solid	12/14/16 12:50	12/15/16 10:00
500-121504-16	1314V3-18-B01 (12-18)	Solid	12/14/16 13:00	12/15/16 10:00
500-121504-17	1314V3-18-B05 (0-8)	Solid	12/14/16 13:35	12/15/16 10:00
500-121504-18	1314V3-18-B05 (8-12)	Solid	12/14/16 13:45	12/15/16 10:00
500-121504-19	1314V3-18-B03 (0-6)	Solid	12/14/16 14:25	12/15/16 10:00
500-121504-20	1314V3-18-B03 (6-12)	Solid	12/14/16 14:30	12/15/16 10:00

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/15/16 16:33	12/19/16 22:08	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/19/16 22:08	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 134	12/15/16 16:33	12/19/16 22:08	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/19/16 22:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Naphthalene	0.023	J	0.039	0.0060	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4,5-Trichlorophenol	<0.39	F2	0.39	0.089	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.22	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Methylnaphthalene	0.023	J	0.079	0.0072	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Acenaphthylene	0.033	J	0.039	0.0051	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Acenaphthene	0.021	J	0.039	0.0070	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Fluorene	0.023	J	0.039	0.0055	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Nitroaniline	<0.39	F1	0.39	0.16	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
4,6-Dinitro-2-methylphenol	<0.79	F2	0.79	0.31	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Phenanthrene	0.41		0.039	0.0054	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Anthracene	0.084		0.039	0.0065	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Fluoranthene	0.63		0.039	0.0072	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Pyrene	0.62		0.039	0.0078	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Benzo[a]anthracene	0.31		0.039	0.0053	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.33		0.039	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
3,3'-Dichlorobenzidine	<0.20	F1	0.20	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Benzo[b]fluoranthene	0.42	F1	0.039	0.0084	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Benzo[k]fluoranthene	0.22		0.039	0.012	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Benzo[a]pyrene	0.31		0.039	0.0076	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Indeno[1,2,3-cd]pyrene	0.098	F1	0.039	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Dibenz(a,h)anthracene	0.032	J F1	0.039	0.0075	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
Benzo[g,h,i]perylene	0.11	F1	0.039	0.013	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1
3 & 4 Methylphenol	<0.20	F2	0.20	0.065	mg/Kg	☼	12/23/16 07:12	12/28/16 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/23/16 07:12	12/28/16 02:50	1
Phenol-d5	86		36 - 123	12/23/16 07:12	12/28/16 02:50	1
Nitrobenzene-d5	88		33 - 124	12/23/16 07:12	12/28/16 02:50	1
2-Fluorobiphenyl	80		42 - 115	12/23/16 07:12	12/28/16 02:50	1
2,4,6-Tribromophenol	47		25 - 130	12/23/16 07:12	12/28/16 02:50	1
Terphenyl-d14	82		25 - 150	12/23/16 07:12	12/28/16 02:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	F1	1.1	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Arsenic	4.5		0.54	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Barium	110		0.54	0.099	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Beryllium	0.80		0.22	0.047	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Boron	18		2.7	0.38	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Cadmium	0.28		0.11	0.031	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Calcium	15000	B F2	11	3.5	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Chromium	10	B	0.54	0.093	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Cobalt	5.1		0.27	0.061	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Copper	42	F1	0.54	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Iron	24000	B	11	4.2	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Lead	110		0.27	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Magnesium	4600		5.4	2.2	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Manganese	360	B	0.54	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Nickel	15		0.54	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Potassium	930	F1	27	4.4	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Selenium	1.0	F1	0.54	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Sodium	1100	F1	54	7.2	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Thallium	1.3		0.54	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Vanadium	18		0.27	0.079	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1
Zinc	230		1.1	0.34	mg/Kg	☼	12/22/16 08:28	12/23/16 19:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:05	1
Boron	0.15	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0034	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Lead	0.015		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Manganese	3.0		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Nickel	0.012	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:05	1
Zinc	0.29	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.30		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/27/16 23:36	1
Manganese	0.58		0.025	0.010	mg/L	-	12/23/16 07:45	12/27/16 23:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 15:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 15:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	F1	0.018	0.0094	mg/Kg	☼	12/21/16 14:45	12/22/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/22/16 15:18	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/15/16 16:33	12/19/16 22:34	1
Dibromofluoromethane	119		75 - 120	12/15/16 16:33	12/19/16 22:34	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/15/16 16:33	12/19/16 22:34	1
Toluene-d8 (Surr)	109		75 - 123	12/15/16 16:33	12/19/16 22:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/23/16 07:12	12/27/16 18:09	1
Phenol-d5	94		36 - 123	12/23/16 07:12	12/27/16 18:09	1
Nitrobenzene-d5	83		33 - 124	12/23/16 07:12	12/27/16 18:09	1
2-Fluorobiphenyl	76		42 - 115	12/23/16 07:12	12/27/16 18:09	1
2,4,6-Tribromophenol	54		25 - 130	12/23/16 07:12	12/27/16 18:09	1
Terphenyl-d14	99		25 - 150	12/23/16 07:12	12/27/16 18:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Arsenic	3.1		0.59	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Barium	56		0.59	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Beryllium	0.47		0.24	0.051	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Boron	3.5		3.0	0.41	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Calcium	15000	B	12	3.8	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Cobalt	4.4		0.30	0.067	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Copper	9.2		0.59	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Iron	10000	B	12	4.5	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Lead	6.4		0.30	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Magnesium	9400		5.9	2.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Manganese	210	B	0.59	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Nickel	10		0.59	0.16	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Potassium	660		30	4.8	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Sodium	300		59	7.8	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Thallium	0.56	J	0.59	0.29	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Vanadium	18		0.30	0.086	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1
Zinc	27		1.2	0.37	mg/Kg	☼	12/22/16 08:28	12/23/16 20:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:12	1
Boron	0.11	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Manganese	0.68		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Nickel	0.010	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:12	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	12/23/16 07:45	12/27/16 23:43	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.010	mg/Kg	☼	12/20/16 13:30	12/21/16 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/22/16 15:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Carbon tetrachloride	<0.0018 *		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/15/16 16:33	12/20/16 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/15/16 16:33	12/20/16 17:07	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/20/16 17:07	1
1,2-Dichloroethane-d4 (Surr)	126		69 - 134	12/15/16 16:33	12/20/16 17:07	1
Toluene-d8 (Surr)	109		75 - 123	12/15/16 16:33	12/20/16 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Phenanthrene	0.037	J	0.040	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Fluoranthene	0.061		0.040	0.0074	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Pyrene	0.067		0.040	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Benzo[a]anthracene	0.033	J	0.040	0.0054	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.040	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Benzo[b]fluoranthene	0.043		0.040	0.0086	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Benzo[a]pyrene	0.033 J		0.040	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
Benzo[g,h,i]perylene	0.025 J		0.040	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/23/16 07:12	12/27/16 18:37	1
Phenol-d5	65		36 - 123	12/23/16 07:12	12/27/16 18:37	1
Nitrobenzene-d5	88		33 - 124	12/23/16 07:12	12/27/16 18:37	1
2-Fluorobiphenyl	85		42 - 115	12/23/16 07:12	12/27/16 18:37	1
2,4,6-Tribromophenol	51		25 - 130	12/23/16 07:12	12/27/16 18:37	1
Terphenyl-d14	94		25 - 150	12/23/16 07:12	12/27/16 18:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.5		1.0	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Arsenic	8.3		0.51	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Barium	93		0.51	0.094	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Beryllium	0.78		0.20	0.044	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Boron	14		2.6	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Cadmium	0.29		0.10	0.030	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Calcium	11000 B		10	3.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Chromium	12 B		0.51	0.088	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Cobalt	6.1		0.26	0.058	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Copper	90		0.51	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Iron	34000 B		10	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Lead	130		0.26	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Magnesium	1300		5.1	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Manganese	380 B		0.51	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Nickel	19		0.51	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Potassium	630		26	4.2	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Selenium	1.8		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Silver	0.099 J		0.26	0.060	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Sodium	640		51	6.8	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Thallium	1.6		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Vanadium	24		0.26	0.075	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1
Zinc	210		1.0	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 20:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:19	1
Boron	0.10 J B		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Lead	0.0086		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Manganese	1.1		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:19	1
Zinc	0.20	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:19	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.064		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/27/16 23:49	1
Manganese	0.11		0.025	0.010	mg/L	-	12/23/16 07:45	12/27/16 23:49	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.020	0.010	mg/Kg	☼	12/20/16 13:30	12/21/16 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU	-		12/22/16 15:25	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/15/16 16:33	12/19/16 23:27	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/19/16 23:27	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/15/16 16:33	12/19/16 23:27	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/19/16 23:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/23/16 07:12	12/27/16 19:04	1
Phenol-d5	50		36 - 123	12/23/16 07:12	12/27/16 19:04	1
Nitrobenzene-d5	87		33 - 124	12/23/16 07:12	12/27/16 19:04	1
2-Fluorobiphenyl	80		42 - 115	12/23/16 07:12	12/27/16 19:04	1
2,4,6-Tribromophenol	52		25 - 130	12/23/16 07:12	12/27/16 19:04	1
Terphenyl-d14	91		25 - 150	12/23/16 07:12	12/27/16 19:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.0	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Arsenic	6.3		0.52	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Barium	96		0.52	0.095	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Beryllium	0.64		0.21	0.045	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Boron	2.5	J	2.6	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Cadmium	0.099	J	0.10	0.030	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Calcium	8500	B	10	3.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Chromium	18	B	0.52	0.089	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Cobalt	8.0		0.26	0.059	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Copper	17		0.52	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Iron	18000	B	10	4.0	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Lead	7.2		0.26	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Magnesium	6500		5.2	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Manganese	610	B	0.52	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Nickel	22		0.52	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Potassium	940		26	4.2	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Selenium	0.61		0.52	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Sodium	340		52	6.9	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Thallium	1.5		0.52	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Vanadium	28		0.26	0.076	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1
Zinc	34		1.0	0.33	mg/Kg	☼	12/22/16 08:28	12/23/16 20:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:26	1
Boron	0.11	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 80.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Manganese	0.30		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:26	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	12/23/16 07:45	12/27/16 23:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0095	mg/Kg	☼	12/20/16 13:30	12/21/16 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/22/16 15:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Carbon tetrachloride	<0.0019 *		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,1,2,2-Tetrachloroethane	<0.0019 *		0.0019	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 120	12/15/16 16:33	12/20/16 17:34	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/20/16 17:34	1
1,2-Dichloroethane-d4 (Surr)	122		69 - 134	12/15/16 16:33	12/20/16 17:34	1
Toluene-d8 (Surr)	135	X	75 - 123	12/15/16 16:33	12/20/16 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Naphthalene	0.0098	J	0.040	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Methylnaphthalene	0.015	J	0.080	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Acenaphthylene	0.021	J	0.040	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Hexachlorobenzene	<0.080		0.080	0.0093	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Phenanthrene	0.060		0.040	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Anthracene	0.040		0.040	0.0067	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Fluoranthene	0.14		0.040	0.0074	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Pyrene	0.19		0.040	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Benzo[a]anthracene	0.091		0.040	0.0054	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.040	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Benzo[b]fluoranthene	0.20		0.040	0.0086	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Benzo[k]fluoranthene	0.072		0.040	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Benzo[a]pyrene	0.13		0.040	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Indeno[1,2,3-cd]pyrene	0.083		0.040	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Dibenz(a,h)anthracene	0.024	J	0.040	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
Benzo[g,h,i]perylene	0.098		0.040	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/23/16 07:12	12/27/16 19:31	1
Phenol-d5	59		36 - 123	12/23/16 07:12	12/27/16 19:31	1
Nitrobenzene-d5	92		33 - 124	12/23/16 07:12	12/27/16 19:31	1
2-Fluorobiphenyl	83		42 - 115	12/23/16 07:12	12/27/16 19:31	1
2,4,6-Tribromophenol	46		25 - 130	12/23/16 07:12	12/27/16 19:31	1
Terphenyl-d14	89		25 - 150	12/23/16 07:12	12/27/16 19:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		1.0	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Arsenic	7.2		0.51	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Barium	56		0.51	0.093	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Beryllium	0.73		0.20	0.044	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Boron	16		2.5	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Cadmium	0.31		0.10	0.029	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Calcium	6600	B	10	3.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Chromium	26	B	0.51	0.087	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Cobalt	3.4		0.25	0.057	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Copper	30		0.51	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Iron	40000	B	10	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Lead	280		0.25	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Magnesium	1800		5.1	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Manganese	4100	B	5.1	1.0	mg/Kg	☼	12/22/16 08:28	12/27/16 20:38	10
Nickel	7.9		0.51	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Potassium	390		25	4.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Selenium	2.1		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Silver	0.29		0.25	0.059	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Sodium	400		51	6.7	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Thallium	5.1		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Vanadium	74		0.25	0.074	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1
Zinc	170		1.0	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 20:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:32	1
Boron	0.12	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0048	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Lead	1.8		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Manganese	2.2		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Nickel	0.015	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:32	1
Zinc	0.39	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:32	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.41		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/28/16 00:03	1
Manganese	0.21		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:10	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.056		0.0060	0.0060	mg/L	-	12/23/16 07:45	12/23/16 16:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.018	0.0094	mg/Kg	☼	12/20/16 13:30	12/21/16 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/22/16 15:33	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 77.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Carbon tetrachloride	<0.0019 *		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/15/16 16:33	12/20/16 18:00	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/20/16 18:00	1
1,2-Dichloroethane-d4 (Surr)	119		69 - 134	12/15/16 16:33	12/20/16 18:00	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/20/16 18:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Bis(2-ethylhexyl) phthalate	0.091	J	0.21	0.077	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	12/23/16 07:12	12/27/16 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130	12/23/16 07:12	12/27/16 19:58	1
Phenol-d5	56		36 - 123	12/23/16 07:12	12/27/16 19:58	1
Nitrobenzene-d5	80		33 - 124	12/23/16 07:12	12/27/16 19:58	1
2-Fluorobiphenyl	75		42 - 115	12/23/16 07:12	12/27/16 19:58	1
2,4,6-Tribromophenol	48		25 - 130	12/23/16 07:12	12/27/16 19:58	1
Terphenyl-d14	91		25 - 150	12/23/16 07:12	12/27/16 19:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.98	J	1.3	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Arsenic	6.8		0.64	0.30	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Barium	91		0.64	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Beryllium	0.65		0.26	0.055	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Boron	3.2		3.2	0.45	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Cadmium	0.064	J	0.13	0.037	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Calcium	13000	B	13	4.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Chromium	17	B	0.64	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Cobalt	8.1		0.32	0.072	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Copper	15		0.64	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Iron	17000	B	13	4.9	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Lead	7.6		0.32	0.16	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Magnesium	9100		6.4	2.6	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Manganese	600	B	0.64	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Nickel	19		0.64	0.17	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Potassium	970		32	5.2	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Selenium	0.49	J	0.64	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Sodium	180		64	8.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Thallium	1.5		0.64	0.31	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Vanadium	26		0.32	0.093	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1
Zinc	34		1.3	0.40	mg/Kg	☼	12/22/16 08:28	12/23/16 20:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:39	1
Boron	0.099	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 77.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Manganese	0.20		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:39	1
Zinc	0.031	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0099	mg/Kg	☼	12/20/16 13:30	12/21/16 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU	-		12/22/16 15:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,1,2,2-Tetrachloroethane	<0.0020 *		0.0020	0.00063	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Tetrachloroethene	0.0034		0.0020	0.00068	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1
Xylenes, Total	0.0025 J		0.0040	0.00063	mg/Kg	☼	12/15/16 16:33	12/21/16 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 120	12/15/16 16:33	12/21/16 16:09	1
Dibromofluoromethane	114		75 - 120	12/15/16 16:33	12/21/16 16:09	1
1,2-Dichloroethane-d4 (Surr)	118		69 - 134	12/15/16 16:33	12/21/16 16:09	1
Toluene-d8 (Surr)	124 X		75 - 123	12/15/16 16:33	12/21/16 16:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Phenanthrene	0.055		0.039	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Anthracene	0.018 J		0.039	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Fluoranthene	0.12		0.039	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Pyrene	0.12		0.039	0.0078	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Benzo[a]anthracene	0.067		0.039	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.079		0.039	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Benzo[b]fluoranthene	0.10		0.039	0.0085	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Benzo[k]fluoranthene	0.036 J		0.039	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Benzo[a]pyrene	0.075		0.039	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Indeno[1,2,3-cd]pyrene	0.033 J		0.039	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
Benzo[g,h,i]perylene	0.038 J		0.039	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:12	12/27/16 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/23/16 07:12	12/27/16 20:26	1
Phenol-d5	65		36 - 123	12/23/16 07:12	12/27/16 20:26	1
Nitrobenzene-d5	89		33 - 124	12/23/16 07:12	12/27/16 20:26	1
2-Fluorobiphenyl	85		42 - 115	12/23/16 07:12	12/27/16 20:26	1
2,4,6-Tribromophenol	40		25 - 130	12/23/16 07:12	12/27/16 20:26	1
Terphenyl-d14	91		25 - 150	12/23/16 07:12	12/27/16 20:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5		1.1	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Arsenic	8.8		0.54	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Barium	110		0.54	0.098	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Beryllium	0.66		0.21	0.046	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Boron	7.1		2.7	0.37	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Cadmium	0.16		0.11	0.031	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Calcium	9600 B		11	3.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Chromium	13 B		0.54	0.092	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Cobalt	12		0.27	0.061	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Copper	120		0.54	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Iron	30000 B		11	4.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Lead	230		0.27	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Magnesium	2100		5.4	2.2	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Manganese	800 B		0.54	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Nickel	17		0.54	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Potassium	710		27	4.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Selenium	1.4		0.54	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Silver	0.13 J		0.27	0.063	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Sodium	910		54	7.1	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Thallium	2.0		0.54	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Vanadium	24		0.27	0.078	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1
Zinc	100		1.1	0.34	mg/Kg	☼	12/22/16 08:28	12/23/16 20:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:46	1
Boron	0.091 J B		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Lead	0.34		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Manganese	2.2		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Nickel	0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:46	1
Zinc	0.23	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:46	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.081		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/28/16 00:32	1
Manganese	0.12		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.044		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.012		0.0060	0.0060	mg/L	-	12/23/16 07:45	12/23/16 16:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.020	0.011	mg/Kg	☼	12/20/16 13:30	12/21/16 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		12/22/16 15:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Carbon tetrachloride	<0.0020 *		0.0020	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/15/16 16:33	12/20/16 18:53	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/20/16 18:53	1
1,2-Dichloroethane-d4 (Surr)	129		69 - 134	12/15/16 16:33	12/20/16 18:53	1
Toluene-d8 (Surr)	112		75 - 123	12/15/16 16:33	12/20/16 18:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/23/16 07:12	12/27/16 20:54	1
Phenol-d5	84		36 - 123	12/23/16 07:12	12/27/16 20:54	1
Nitrobenzene-d5	88		33 - 124	12/23/16 07:12	12/27/16 20:54	1
2-Fluorobiphenyl	80		42 - 115	12/23/16 07:12	12/27/16 20:54	1
2,4,6-Tribromophenol	36		25 - 130	12/23/16 07:12	12/27/16 20:54	1
Terphenyl-d14	95		25 - 150	12/23/16 07:12	12/27/16 20:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.91	J	1.1	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Arsenic	6.9		0.56	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Barium	95		0.56	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Boron	2.7	J	2.8	0.39	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Cadmium	0.21		0.11	0.033	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Calcium	7200	B	11	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Chromium	16	B	0.56	0.097	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Cobalt	8.7		0.28	0.064	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Copper	16		0.56	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Iron	17000	B	11	4.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Lead	9.2		0.28	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Magnesium	5100		5.6	2.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Manganese	830	B	0.56	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Nickel	21		0.56	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Potassium	770		28	4.6	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Selenium	0.67		0.56	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Silver	0.079	J	0.28	0.066	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Sodium	200		56	7.5	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Thallium	1.8		0.56	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Vanadium	29		0.28	0.082	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1
Zinc	35		1.1	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 20:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 18:53	1
Boron	0.077	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 18:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 78.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Manganese	0.10		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 18:53	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 18:53	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	12/20/16 13:30	12/21/16 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2		0.2	0.2	SU	-		12/22/16 15:44	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Benzene	<0.0015		0.0015	0.00040	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Bromodichloromethane	<0.0015		0.0015	0.00032	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Chloroform	<0.0015		0.0015	0.00054	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00047	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Dibromochloromethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Styrene	<0.0015		0.0015	0.00047	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Tetrachloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00069	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Vinyl acetate	<0.0039		0.0039	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Vinyl chloride	<0.0015		0.0015	0.00069	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/15/16 16:33	12/21/16 16:35	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/21/16 16:35	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/15/16 16:33	12/21/16 16:35	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/21/16 16:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Phenanthrene	0.011	J	0.035	0.0050	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Fluoranthene	0.012	J	0.035	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Pyrene	0.014	J	0.035	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		40 - 130	12/23/16 07:12	12/27/16 21:21	1
Phenol-d5	74		36 - 123	12/23/16 07:12	12/27/16 21:21	1
Nitrobenzene-d5	89		33 - 124	12/23/16 07:12	12/27/16 21:21	1
2-Fluorobiphenyl	84		42 - 115	12/23/16 07:12	12/27/16 21:21	1
2,4,6-Tribromophenol	25		25 - 130	12/23/16 07:12	12/27/16 21:21	1
Terphenyl-d14	87		25 - 150	12/23/16 07:12	12/27/16 21:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Arsenic	4.6		0.56	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Barium	35		0.56	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Beryllium	0.44		0.22	0.049	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Boron	3.5		2.8	0.39	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Cadmium	0.11		0.11	0.032	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Calcium	36000	B	11	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Chromium	10	B	0.56	0.096	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Cobalt	5.3		0.28	0.063	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Copper	11		0.56	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Iron	15000	B	11	4.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Lead	8.5		0.28	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Magnesium	19000		5.6	2.3	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Manganese	340	B	0.56	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Nickel	13		0.56	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Potassium	790		28	4.6	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Selenium	0.76		0.56	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Sodium	530		56	7.4	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Thallium	0.91		0.56	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Vanadium	18		0.28	0.082	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1
Zinc	34		1.1	0.35	mg/Kg	☼	12/22/16 08:28	12/23/16 20:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:15	1
Boron	0.068	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0034	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Cobalt	0.023	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Manganese	7.0		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Nickel	0.032		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:15	1
Zinc	0.020	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0093	mg/Kg	☼	12/20/16 13:30	12/21/16 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/22/16 15:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
2-Butanone (MEK)	<0.0037		0.0037	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/21/16 17:01	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/21/16 17:01	1
1,2-Dichloroethane-d4 (Surr)	122		69 - 134	12/15/16 16:33	12/21/16 17:01	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/21/16 17:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Naphthalene	0.065		0.037	0.0057	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Methylnaphthalene	0.10		0.074	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Acenaphthylene	0.013 J		0.037	0.0048	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Acenaphthene	0.0091 J		0.037	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Dibenzofuran	0.045 J		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Fluorene	0.0097 J		0.037	0.0052	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Phenanthrene	0.17		0.037	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Anthracene	0.031 J		0.037	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Fluoranthene	0.15		0.037	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Pyrene	0.16		0.037	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Benzo[a]anthracene	0.069		0.037	0.0049	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.090		0.037	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Benzo[b]fluoranthene	0.10		0.037	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Benzo[k]fluoranthene	0.037		0.037	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Benzo[a]pyrene	0.061		0.037	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.037	0.0095	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
Benzo[g,h,i]perylene	0.036	J	0.037	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/23/16 07:12	12/27/16 21:49	1
Phenol-d5	58		36 - 123	12/23/16 07:12	12/27/16 21:49	1
Nitrobenzene-d5	95		33 - 124	12/23/16 07:12	12/27/16 21:49	1
2-Fluorobiphenyl	85		42 - 115	12/23/16 07:12	12/27/16 21:49	1
2,4,6-Tribromophenol	38		25 - 130	12/23/16 07:12	12/27/16 21:49	1
Terphenyl-d14	86		25 - 150	12/23/16 07:12	12/27/16 21:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	0.93	0.19	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Arsenic	4.6		0.46	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Barium	55		0.46	0.085	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Beryllium	0.56		0.19	0.040	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Boron	8.6		2.3	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Cadmium	0.35		0.093	0.027	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Calcium	26000	B	9.3	3.0	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Chromium	12	B	0.46	0.080	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Cobalt	5.3		0.23	0.052	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Copper	15		0.46	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Iron	14000	B	9.3	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Lead	14		0.23	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Magnesium	13000		4.6	1.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Manganese	290	B	0.46	0.092	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Nickel	13		0.46	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Potassium	780		23	3.8	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Selenium	0.54		0.46	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Sodium	200		46	6.1	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Thallium	0.89		0.46	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Vanadium	18		0.23	0.068	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1
Zinc	66		0.93	0.29	mg/Kg	☼	12/22/16 08:28	12/23/16 21:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:22	1
Boron	0.14	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0046	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Cobalt	0.021	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Lead	0.0080		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Manganese	8.0		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Nickel	0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:22	1
Zinc	0.19	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:22	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.028		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/28/16 00:53	1
Manganese	0.32		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:53	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0096	mg/Kg	☼	12/20/16 13:30	12/21/16 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/22/16 15:52	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Carbon tetrachloride	<0.0016 *		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 120	12/15/16 16:33	12/20/16 20:12	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/20/16 20:12	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/15/16 16:33	12/20/16 20:12	1
Toluene-d8 (Surr)	118		75 - 123	12/15/16 16:33	12/20/16 20:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Naphthalene	0.13		0.036	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Methylnaphthalene	0.21		0.074	0.0067	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Acenaphthylene	0.19		0.036	0.0048	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Acenaphthene	0.041		0.036	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Dibenzofuran	0.17 J		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Fluorene	0.099		0.036	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Phenanthrene	1.6		0.036	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Anthracene	0.46		0.036	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Carbazole	0.19		0.18	0.091	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Fluoranthene	1.9		0.036	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Pyrene	1.6		0.036	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Benzo[a]anthracene	0.91		0.036	0.0049	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.82		0.036	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Benzo[b]fluoranthene	0.94		0.036	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Benzo[k]fluoranthene	0.43		0.036	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Benzo[a]pyrene	0.72		0.036	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Indeno[1,2,3-cd]pyrene	0.24		0.036	0.0095	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Dibenz(a,h)anthracene	0.077		0.036	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
Benzo[g,h,i]perylene	0.25		0.036	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		40 - 130	12/23/16 07:12	12/27/16 22:16	1
Phenol-d5	105		36 - 123	12/23/16 07:12	12/27/16 22:16	1
Nitrobenzene-d5	98		33 - 124	12/23/16 07:12	12/27/16 22:16	1
2-Fluorobiphenyl	87		42 - 115	12/23/16 07:12	12/27/16 22:16	1
2,4,6-Tribromophenol	43		25 - 130	12/23/16 07:12	12/27/16 22:16	1
Terphenyl-d14	91		25 - 150	12/23/16 07:12	12/27/16 22:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	0.89	0.18	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Arsenic	5.6		0.44	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Barium	63		0.44	0.081	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Beryllium	0.55		0.18	0.038	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Boron	7.1		2.2	0.31	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Cadmium	0.42		0.089	0.026	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Calcium	28000	B	8.9	2.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Chromium	12	B	0.44	0.076	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Cobalt	4.7		0.22	0.050	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Copper	17		0.44	0.096	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Iron	13000	B	8.9	3.4	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Lead	23		0.22	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Magnesium	14000		4.4	1.8	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Manganese	280	B	0.44	0.088	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Nickel	12		0.44	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Potassium	850		22	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Selenium	0.45		0.44	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Sodium	560		44	5.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Thallium	1.0		0.44	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Vanadium	20		0.22	0.065	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1
Zinc	86		0.89	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 21:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:29	1
Boron	0.095	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0042	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Manganese	1.4		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Nickel	0.010	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:29	1
Zinc	0.16	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 00:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.018	0.0097	mg/Kg	☼	12/20/16 13:30	12/21/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/22/16 16:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0063	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Benzene	<0.0015		0.0015	0.00037	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Carbon disulfide	<0.0036		0.0036	0.00076	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Carbon tetrachloride	<0.0015 *		0.0015	0.00042	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Chloromethane	<0.0036		0.0036	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,1-Dichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Ethylbenzene	<0.0015		0.0015	0.00070	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Styrene	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Trichloroethene	<0.0015		0.0015	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Vinyl acetate	<0.0036		0.0036	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Vinyl chloride	<0.0015		0.0015	0.00064	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1
Xylenes, Total	<0.0029		0.0029	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/15/16 16:33	12/20/16 20:38	1
Dibromofluoromethane	119		75 - 120	12/15/16 16:33	12/20/16 20:38	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/15/16 16:33	12/20/16 20:38	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/20/16 20:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Naphthalene	0.17		0.037	0.0058	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Methylnaphthalene	0.23		0.076	0.0069	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Acenaphthylene	0.020 J		0.037	0.0050	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Acenaphthene	0.0072 J		0.037	0.0068	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Dibenzofuran	0.076 J		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Fluorene	0.0089 J		0.037	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Phenanthrene	0.22		0.037	0.0052	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Anthracene	0.030 J		0.037	0.0063	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Fluoranthene	0.18		0.037	0.0070	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Pyrene	0.17		0.037	0.0075	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Benzo[a]anthracene	0.090		0.037	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.037	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Benzo[b]fluoranthene	0.14		0.037	0.0081	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Benzo[k]fluoranthene	0.057		0.037	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Benzo[a]pyrene	0.084		0.037	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Indeno[1,2,3-cd]pyrene	0.036	J	0.037	0.0098	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Dibenz(a,h)anthracene	0.012	J	0.037	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
Benzo[g,h,i]perylene	0.043		0.037	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		40 - 130	12/23/16 07:12	12/27/16 22:44	1
Phenol-d5	93		36 - 123	12/23/16 07:12	12/27/16 22:44	1
Nitrobenzene-d5	96		33 - 124	12/23/16 07:12	12/27/16 22:44	1
2-Fluorobiphenyl	85		42 - 115	12/23/16 07:12	12/27/16 22:44	1
2,4,6-Tribromophenol	55		25 - 130	12/23/16 07:12	12/27/16 22:44	1
Terphenyl-d14	88		25 - 150	12/23/16 07:12	12/27/16 22:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	0.96	0.20	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Arsenic	7.3		0.48	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Barium	76		0.48	0.088	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Beryllium	0.68		0.19	0.042	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Boron	14		2.4	0.34	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Cadmium	0.32		0.096	0.028	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Calcium	14000	B	9.6	3.1	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Chromium	11	B	0.48	0.083	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Cobalt	5.6		0.24	0.054	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Copper	19		0.48	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Iron	20000	B	9.6	3.7	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Lead	39		0.24	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Magnesium	4300		4.8	2.0	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Manganese	220	B	0.48	0.095	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Nickel	13		0.48	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Potassium	790		24	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Selenium	0.93		0.48	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Sodium	270		48	6.4	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Thallium	1.0		0.48	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Vanadium	19		0.24	0.070	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1
Zinc	120		0.96	0.31	mg/Kg	☼	12/22/16 08:28	12/23/16 21:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:36	1
Boron	0.13	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0079		0.0050	0.0020	mg/L	-	12/22/16 08:57	12/23/16 12:49	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Cobalt	0.048		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Iron	0.84		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Lead	0.015		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Manganese	9.1		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Nickel	0.047		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:36	1
Zinc	0.35	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:36	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/23/16 07:45	12/28/16 01:06	1
Lead	0.030		0.0075	0.0075	mg/L	-	12/23/16 07:45	12/28/16 01:06	1
Manganese	0.14		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 01:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.019	0.0099	mg/Kg	☼	12/20/16 13:30	12/21/16 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU	-		12/22/16 16:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.017	0.0076	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Carbon tetrachloride	<0.0017 *		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,1,1,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/15/16 16:33	12/20/16 21:04	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/20/16 21:04	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 134	12/15/16 16:33	12/20/16 21:04	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/20/16 21:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Methylnaphthalene	0.0091	J	0.080	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Phenanthrene	0.0072	J	0.039	0.0055	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:12	12/27/16 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		40 - 130	12/23/16 07:12	12/27/16 23:11	1
Phenol-d5	77		36 - 123	12/23/16 07:12	12/27/16 23:11	1
Nitrobenzene-d5	93		33 - 124	12/23/16 07:12	12/27/16 23:11	1
2-Fluorobiphenyl	88		42 - 115	12/23/16 07:12	12/27/16 23:11	1
2,4,6-Tribromophenol	47		25 - 130	12/23/16 07:12	12/27/16 23:11	1
Terphenyl-d14	93		25 - 150	12/23/16 07:12	12/27/16 23:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	0.92	0.19	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Arsenic	2.5		0.46	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Barium	49		0.46	0.085	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Beryllium	0.41		0.18	0.040	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Boron	2.0	J	2.3	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Cadmium	<0.092		0.092	0.027	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Calcium	3300	B	9.2	3.0	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Chromium	10	B	0.46	0.079	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Cobalt	4.5		0.23	0.052	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Copper	8.1		0.46	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Iron	10000	B	9.2	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Lead	6.6		0.23	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Magnesium	1800		4.6	1.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Manganese	210	B	0.46	0.091	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Nickel	9.3		0.46	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Potassium	580		23	3.8	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Selenium	0.37	J	0.46	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Sodium	110		46	6.1	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Thallium	0.70		0.46	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Vanadium	16		0.23	0.067	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1
Zinc	24		0.92	0.29	mg/Kg	☼	12/22/16 08:28	12/23/16 21:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:42	1
Boron	0.13	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Cobalt	0.032		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Manganese	14		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Nickel	0.041		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:42	1
Zinc	0.062	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 01:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0099	mg/Kg	☼	12/20/16 13:30	12/21/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/22/16 16:53	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Carbon tetrachloride	<0.0016 *		0.0016	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	12/15/16 16:33	12/20/16 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/20/16 21:30	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/20/16 21:30	1
1,2-Dichloroethane-d4 (Surr)	130		69 - 134	12/15/16 16:33	12/20/16 21:30	1
Toluene-d8 (Surr)	109		75 - 123	12/15/16 16:33	12/20/16 21:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Naphthalene	0.039		0.036	0.0056	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Methylnaphthalene	0.059 J		0.073	0.0067	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Acenaphthylene	0.012 J		0.036	0.0048	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Phenanthrene	0.089		0.036	0.0051	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Anthracene	0.019 J		0.036	0.0061	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Fluoranthene	0.088		0.036	0.0067	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Pyrene	0.086		0.036	0.0072	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Benzo[a]anthracene	0.047		0.036	0.0049	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.056		0.036	0.0099	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Benzo[b]fluoranthene	0.085		0.036	0.0079	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Benzo[k]fluoranthene	0.030 J		0.036	0.011	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Benzo[a]pyrene	0.052		0.036	0.0070	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Indeno[1,2,3-cd]pyrene	0.021 J		0.036	0.0094	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
Benzo[g,h,i]perylene	0.025 J		0.036	0.012	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/27/16 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		40 - 130	12/23/16 07:12	12/27/16 23:38	1
Phenol-d5	99		36 - 123	12/23/16 07:12	12/27/16 23:38	1
Nitrobenzene-d5	103		33 - 124	12/23/16 07:12	12/27/16 23:38	1
2-Fluorobiphenyl	92		42 - 115	12/23/16 07:12	12/27/16 23:38	1
2,4,6-Tribromophenol	53		25 - 130	12/23/16 07:12	12/27/16 23:38	1
Terphenyl-d14	92		25 - 150	12/23/16 07:12	12/27/16 23:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33 J		1.0	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Arsenic	4.5		0.51	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Barium	52		0.51	0.093	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Beryllium	0.50		0.20	0.044	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Boron	4.6		2.5	0.35	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Cadmium	0.20		0.10	0.029	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Calcium	80000 B		100	33	mg/Kg	☼	12/22/16 08:28	12/27/16 20:42	10
Chromium	11 B		0.51	0.087	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Cobalt	5.4		0.25	0.057	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Copper	15		0.51	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Iron	13000 B		10	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Lead	19		0.25	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Magnesium	19000		5.1	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Manganese	370 B		0.51	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Nickel	13		0.51	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Potassium	930		25	4.1	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Selenium	0.34 J		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Sodium	340		51	6.7	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Thallium	0.89		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Vanadium	19		0.25	0.074	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1
Zinc	51		1.0	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 21:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:49	1
Boron	0.074 J B		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Manganese	1.5		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Nickel	0.013	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:49	1
Zinc	0.076	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 01:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.017	0.0091	mg/Kg	☼	12/20/16 13:30	12/21/16 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU	-		12/22/16 16:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Carbon tetrachloride	<0.0016 *		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	12/15/16 16:33	12/20/16 21:56	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/20/16 21:56	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/15/16 16:33	12/20/16 21:56	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/20/16 21:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Naphthalene	0.011	J	0.037	0.0057	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Methylnaphthalene	0.019	J	0.074	0.0068	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Acenaphthylene	0.0090	J	0.037	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Phenanthrene	0.069		0.037	0.0051	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Anthracene	0.016	J	0.037	0.0062	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Fluoranthene	0.068		0.037	0.0068	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Pyrene	0.074		0.037	0.0073	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Benzo[a]anthracene	0.037		0.037	0.0050	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.048		0.037	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Benzo[b]fluoranthene	0.061		0.037	0.0080	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Benzo[k]fluoranthene	0.019 J		0.037	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Benzo[a]pyrene	0.034 J		0.037	0.0071	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Indeno[1,2,3-cd]pyrene	0.015 J		0.037	0.0096	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
Benzo[g,h,i]perylene	0.018 J		0.037	0.012	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 07:12	12/28/16 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	116		40 - 130	12/23/16 07:12	12/28/16 00:06	1
Phenol-d5	102		36 - 123	12/23/16 07:12	12/28/16 00:06	1
Nitrobenzene-d5	102		33 - 124	12/23/16 07:12	12/28/16 00:06	1
2-Fluorobiphenyl	90		42 - 115	12/23/16 07:12	12/28/16 00:06	1
2,4,6-Tribromophenol	46		25 - 130	12/23/16 07:12	12/28/16 00:06	1
Terphenyl-d14	92		25 - 150	12/23/16 07:12	12/28/16 00:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39 J		1.1	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Arsenic	6.2		0.57	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Barium	52		0.57	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Beryllium	0.46		0.23	0.049	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Boron	6.2		2.8	0.40	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Calcium	54000 B		11	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Chromium	10 B		0.57	0.097	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Cobalt	4.6		0.28	0.064	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Copper	15		0.57	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Iron	13000 B		11	4.4	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Lead	17		0.28	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Magnesium	18000		5.7	2.3	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Manganese	320 B		0.57	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Nickel	11		0.57	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Potassium	760		28	4.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Selenium	0.37 J		0.57	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Sodium	710		57	7.5	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Thallium	0.76		0.57	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Vanadium	18		0.28	0.083	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1
Zinc	78		1.1	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 21:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 19:56	1
Boron	0.098 J B		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0047	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Cobalt	0.032		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Manganese	6.3		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Nickel	0.041		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 19:56	1
Zinc	0.096	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 19:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 01:26	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.010	mg/Kg	☼	12/20/16 13:30	12/21/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU	-		12/22/16 17:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 89.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
2-Butanone (MEK)	<0.0037		0.0037	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/15/16 16:33	12/21/16 17:28	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/21/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/15/16 16:33	12/21/16 17:28	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/21/16 17:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Naphthalene	0.0068	J	0.036	0.0055	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Methylnaphthalene	0.0081	J	0.072	0.0066	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Fluorene	0.0060	J	0.036	0.0050	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Phenanthrene	0.055		0.036	0.0050	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Anthracene	0.012	J	0.036	0.0060	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Fluoranthene	0.064		0.036	0.0067	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Pyrene	0.068		0.036	0.0071	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Benzo[a]anthracene	0.025	J	0.036	0.0048	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.036	0.0098	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Benzo[b]fluoranthene	0.037		0.036	0.0078	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Benzo[a]pyrene	0.026	J	0.036	0.0070	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Indeno[1,2,3-cd]pyrene	0.010	J	0.036	0.0093	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
Benzo[g,h,i]perylene	0.012	J	0.036	0.012	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 07:12	12/28/16 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	115		40 - 130	12/23/16 07:12	12/28/16 00:33	1
Phenol-d5	105		36 - 123	12/23/16 07:12	12/28/16 00:33	1
Nitrobenzene-d5	103		33 - 124	12/23/16 07:12	12/28/16 00:33	1
2-Fluorobiphenyl	94		42 - 115	12/23/16 07:12	12/28/16 00:33	1
2,4,6-Tribromophenol	50		25 - 130	12/23/16 07:12	12/28/16 00:33	1
Terphenyl-d14	94		25 - 150	12/23/16 07:12	12/28/16 00:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	0.95	0.20	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Arsenic	6.0		0.47	0.22	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Barium	39		0.47	0.087	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Beryllium	0.39		0.19	0.041	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Boron	2.8		2.4	0.33	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Cadmium	0.13		0.095	0.027	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Calcium	35000	B	9.5	3.0	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Chromium	9.7	B	0.47	0.081	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Cobalt	5.7		0.24	0.053	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Copper	11		0.47	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Iron	13000	B	9.5	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Lead	9.5		0.24	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Magnesium	18000		4.7	1.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Manganese	290	B	0.47	0.094	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Nickel	13		0.47	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Potassium	760		24	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Selenium	0.62		0.47	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Sodium	460		47	6.2	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Thallium	0.86		0.47	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Vanadium	16		0.24	0.069	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1
Zinc	33		0.95	0.30	mg/Kg	☼	12/22/16 08:28	12/23/16 21:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 20:03	1
Boron	0.063	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 89.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0038	J ^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Cobalt	0.024	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Manganese	7.8		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Nickel	0.032		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:03	1
Zinc	0.021	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.23		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 01:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 16:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 16:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0091	mg/Kg	☼	12/20/16 13:30	12/21/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU	-		12/22/16 17:04	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/21/16 17:54	1
Dibromofluoromethane	118		75 - 120	12/15/16 16:33	12/21/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/15/16 16:33	12/21/16 17:54	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/21/16 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.077	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Chlorophenol	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Chloronaphthalene	<0.18		0.18	0.038	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.068	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Phenanthrene	0.026	J	0.035	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Anthracene	0.0084	J	0.035	0.0058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Fluoranthene	0.059		0.035	0.0065	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Pyrene	0.063		0.035	0.0069	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Benzo[a]anthracene	0.059		0.035	0.0047	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.068		0.035	0.0095	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Benzo[b]fluoranthene	0.16		0.035	0.0075	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Benzo[k]fluoranthene	0.087		0.035	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Benzo[a]pyrene	0.086		0.035	0.0067	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Indeno[1,2,3-cd]pyrene	0.059		0.035	0.0090	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Dibenz(a,h)anthracene	0.015 J		0.035	0.0067	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Benzo[g,h,i]perylene	0.065		0.035	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		40 - 130				12/23/16 07:12	12/28/16 01:00	1
Phenol-d5	98		36 - 123				12/23/16 07:12	12/28/16 01:00	1
Nitrobenzene-d5	97		33 - 124				12/23/16 07:12	12/28/16 01:00	1
2-Fluorobiphenyl	89		42 - 115				12/23/16 07:12	12/28/16 01:00	1
2,4,6-Tribromophenol	55		25 - 130				12/23/16 07:12	12/28/16 01:00	1
Terphenyl-d14	92		25 - 150				12/23/16 07:12	12/28/16 01:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48 J		1.0	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Arsenic	3.2		0.51	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Barium	53		0.51	0.093	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Beryllium	0.52		0.20	0.044	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Boron	2.4 J		2.5	0.35	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Calcium	5000 B		10	3.3	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Chromium	13 B		0.51	0.087	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Cobalt	5.3		0.25	0.057	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Copper	13		0.51	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Iron	12000 B		10	3.9	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Lead	18		0.25	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Magnesium	2600		5.1	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Manganese	270 B		0.51	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Nickel	13		0.51	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Potassium	570		25	4.1	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Selenium	0.52		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Sodium	89		51	6.7	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Thallium	0.99		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Vanadium	21		0.25	0.074	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1
Zinc	38		1.0	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 22:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 20:09	1
Boron	0.070 J B		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 91.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		12/22/16 08:57	12/22/16 20:09	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 20:09	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 20:09	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 08:57	12/22/16 20:09	1
Lead	0.0079		0.0075	0.0075	mg/L		12/22/16 08:57	12/22/16 20:09	1
Manganese	0.44		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 20:09	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 20:09	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 08:57	12/22/16 20:09	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 20:09	1
Zinc	0.12	J	0.50	0.020	mg/L		12/22/16 08:57	12/22/16 20:09	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.042		0.0075	0.0075	mg/L		12/23/16 07:45	12/28/16 01:56	1
Manganese	0.50		0.025	0.010	mg/L		12/23/16 07:45	12/28/16 01:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 08:57	12/22/16 16:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 08:57	12/22/16 16:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0094	mg/Kg	☼	12/20/16 13:30	12/21/16 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			12/22/16 17:08	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Carbon tetrachloride	<0.0018 *		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/15/16 16:33	12/20/16 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/20/16 23:14	1
Dibromofluoromethane	120		75 - 120	12/15/16 16:33	12/20/16 23:14	1
1,2-Dichloroethane-d4 (Surr)	123		69 - 134	12/15/16 16:33	12/20/16 23:14	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/20/16 23:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 90.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 90.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		40 - 130	12/23/16 07:12	12/28/16 01:28	1
Phenol-d5	83		36 - 123	12/23/16 07:12	12/28/16 01:28	1
Nitrobenzene-d5	91		33 - 124	12/23/16 07:12	12/28/16 01:28	1
2-Fluorobiphenyl	82		42 - 115	12/23/16 07:12	12/28/16 01:28	1
2,4,6-Tribromophenol	46		25 - 130	12/23/16 07:12	12/28/16 01:28	1
Terphenyl-d14	83		25 - 150	12/23/16 07:12	12/28/16 01:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.0	0.21	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Arsenic	4.8		0.51	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Barium	29		0.51	0.094	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Beryllium	0.42		0.21	0.044	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Boron	1.1	J	2.6	0.36	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Calcium	13000	B	10	3.3	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Chromium	8.6	B	0.51	0.088	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Cobalt	5.4		0.26	0.058	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Copper	11		0.51	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Iron	12000	B	10	4.0	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Lead	2.8		0.26	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Magnesium	6900		5.1	2.1	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Manganese	300	B	0.51	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Nickel	15		0.51	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Potassium	320		26	4.2	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Selenium	0.55		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Sodium	140		51	6.8	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Thallium	0.90		0.51	0.25	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Vanadium	25		0.26	0.075	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1
Zinc	24		1.0	0.32	mg/Kg	☼	12/22/16 08:28	12/23/16 22:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 20:16	1
Boron	0.073	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 90.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Cobalt	0.013	J	0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Manganese	2.8		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Nickel	0.031		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:16	1
Zinc	0.038	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.025		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 02:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 17:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0084	mg/Kg	☼	12/20/16 13:30	12/21/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/22/16 17:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/21/16 18:20	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/21/16 18:20	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 134	12/15/16 16:33	12/21/16 18:20	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/21/16 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Fluoranthene	0.022	J	0.038	0.0071	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Pyrene	0.021	J	0.038	0.0076	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Benzo[a]anthracene	0.0079	J	0.038	0.0051	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Benzo[b]fluoranthene	0.025	J	0.038	0.0082	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:12	12/28/16 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		40 - 130				12/23/16 07:12	12/28/16 01:55	1
Phenol-d5	100		36 - 123				12/23/16 07:12	12/28/16 01:55	1
Nitrobenzene-d5	105		33 - 124				12/23/16 07:12	12/28/16 01:55	1
2-Fluorobiphenyl	91		42 - 115				12/23/16 07:12	12/28/16 01:55	1
2,4,6-Tribromophenol	53		25 - 130				12/23/16 07:12	12/28/16 01:55	1
Terphenyl-d14	92		25 - 150				12/23/16 07:12	12/28/16 01:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Arsenic	4.1		0.58	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Barium	60		0.58	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Boron	4.5		2.9	0.40	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Cadmium	0.083	J	0.12	0.034	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Calcium	38000	B	12	3.7	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Chromium	12	B	0.58	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Cobalt	5.5		0.29	0.065	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Copper	13		0.58	0.13	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Iron	13000	B	12	4.5	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Lead	10		0.29	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Magnesium	19000		5.8	2.4	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Manganese	360	B	0.58	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Nickel	15		0.58	0.16	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Potassium	980		29	4.7	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Sodium	89		58	7.6	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Thallium	0.88		0.58	0.28	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Vanadium	18		0.29	0.085	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1
Zinc	38		1.2	0.37	mg/Kg	☼	12/22/16 08:28	12/23/16 22:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 20:39	1
Boron	0.12	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Manganese	0.36		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:39	1
Zinc	0.035	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 02:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 17:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 17:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.017	0.0090	mg/Kg	☼	12/20/16 13:30	12/21/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU	-		12/22/16 17:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/15/16 16:33	12/21/16 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 120	12/15/16 16:33	12/21/16 18:46	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/21/16 18:46	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 134	12/15/16 16:33	12/21/16 18:46	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/21/16 18:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Pyrene	0.030	J	0.037	0.0074	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Benzo[b]fluoranthene	0.016	J	0.037	0.0080	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 07:12	12/28/16 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		40 - 130	12/23/16 07:12	12/28/16 02:22	1
Phenol-d5	81		36 - 123	12/23/16 07:12	12/28/16 02:22	1
Nitrobenzene-d5	89		33 - 124	12/23/16 07:12	12/28/16 02:22	1
2-Fluorobiphenyl	82		42 - 115	12/23/16 07:12	12/28/16 02:22	1
2,4,6-Tribromophenol	44		25 - 130	12/23/16 07:12	12/28/16 02:22	1
Terphenyl-d14	86		25 - 150	12/23/16 07:12	12/28/16 02:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.1	0.23	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Arsenic	3.1		0.55	0.26	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Barium	73		0.55	0.10	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Beryllium	0.42		0.22	0.048	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Boron	2.1	J	2.8	0.39	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Calcium	7500	B	11	3.6	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Chromium	11	B	0.55	0.095	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Cobalt	4.4		0.28	0.062	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Copper	8.2		0.55	0.12	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Iron	11000	B	11	4.3	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Lead	5.1		0.28	0.14	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Magnesium	4500		5.5	2.2	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Manganese	280	B	0.55	0.11	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Nickel	9.7		0.55	0.15	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Potassium	680		28	4.5	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Selenium	0.49	J	0.55	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Sodium	72		55	7.3	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Thallium	0.81		0.55	0.27	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Vanadium	15		0.28	0.081	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1
Zinc	33		1.1	0.35	mg/Kg	☼	12/22/16 08:28	12/23/16 22:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 20:46	1
Boron	0.075	J B	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	^	0.0050	0.0020	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Manganese	0.81		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 08:57	12/22/16 20:46	1
Zinc	0.022	J	0.50	0.020	mg/L	-	12/22/16 08:57	12/22/16 20:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L	-	12/23/16 07:45	12/28/16 02:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 08:57	12/22/16 17:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 08:57	12/22/16 17:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0090	mg/Kg	☼	12/20/16 13:30	12/21/16 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		12/22/16 17:20	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

GC/MS VOA

Prep Batch: 365399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	5035	
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	5035	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	5035	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	5035	
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	5035	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	5035	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	5035	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	5035	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	5035	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	5035	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	5035	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	5035	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	5035	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	5035	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	5035	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	5035	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	5035	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	5035	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	5035	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 365775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	8260B	365399
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	8260B	365399
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	8260B	365399
MB 500-365775/28	Method Blank	Total/NA	Solid	8260B	
LCS 500-365775/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365775/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 365926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	8260B	365399
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	8260B	365399
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	8260B	365399
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	8260B	365399
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	8260B	365399
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	8260B	365399
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	8260B	365399
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	8260B	365399
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	8260B	365399
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	8260B	365399
MB 500-365926/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-365926/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365926/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 366116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	8260B	365399
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	8260B	365399
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	8260B	365399

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

GC/MS VOA (Continued)

Analysis Batch: 366116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	8260B	365399
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	8260B	365399
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	8260B	365399
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	8260B	365399
MB 500-366116/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-366116/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-366116/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 366449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	3541	
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	3541	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	3541	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	3541	
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	3541	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	3541	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	3541	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	3541	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	3541	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	3541	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	3541	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	3541	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	3541	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	3541	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	3541	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	3541	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	3541	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	3541	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	3541	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	3541	
MB 500-366449/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-366449/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	3541	
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 366695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-366449/1-A	Method Blank	Total/NA	Solid	8270D	366449
LCS 500-366449/2-A	Lab Control Sample	Total/NA	Solid	8270D	366449

Analysis Batch: 366771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	8270D	366449
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	8270D	366449
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	8270D	366449
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	8270D	366449
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	8270D	366449
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	8270D	366449

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

GC/MS Semi VOA (Continued)

Analysis Batch: 366771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	8270D	366449
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	8270D	366449
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	8270D	366449
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	8270D	366449
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	8270D	366449
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	8270D	366449
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	8270D	366449
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	8270D	366449
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	8270D	366449
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	8270D	366449
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	8270D	366449
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	8270D	366449
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	8270D	366449
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	8270D	366449
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	8270D	366449
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	8270D	366449

Metals

Prep Batch: 365942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	7471B	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	7471B	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	7471B	
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	7471B	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	7471B	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	7471B	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	7471B	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	7471B	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	7471B	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	7471B	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	7471B	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	7471B	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	7471B	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	7471B	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	7471B	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	7471B	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	7471B	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	7471B	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	7471B	
MB 500-365942/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-365942/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 366132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	7471B	365942
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	7471B	365942
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	7471B	365942
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	7471B	365942
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	7471B	365942

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Analysis Batch: 366132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	7471B	365942
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	7471B	365942
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	7471B	365942
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	7471B	365942
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	7471B	365942
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	7471B	365942
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	7471B	365942
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	7471B	365942
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	7471B	365942
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	7471B	365942
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	7471B	365942
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	7471B	365942
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	7471B	365942
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	7471B	365942
MB 500-365942/12-A	Method Blank	Total/NA	Solid	7471B	365942
LCS 500-365942/13-A	Lab Control Sample	Total/NA	Solid	7471B	365942

Prep Batch: 366137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	
MB 500-366137/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-366137/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	
500-121504-1 DU	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	

Leach Batch: 366138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	SPLP East	Solid	1312	
500-121504-2	1314V3-24-B11 (6-12)	SPLP East	Solid	1312	
500-121504-3	1314V3-24-B14 (0-6)	SPLP East	Solid	1312	
500-121504-4	1314V3-24-B14 (6-12)	SPLP East	Solid	1312	
500-121504-5	1314V3-24-B12 (0-6)	SPLP East	Solid	1312	
500-121504-6	1314V3-24-B12 (6-12)	SPLP East	Solid	1312	
500-121504-7	1314V3-24-B13 (0-6)	SPLP East	Solid	1312	
500-121504-9	1314V3-01-B09 (0-6)	SPLP East	Solid	1312	
500-121504-10	1314V3-01-B09 (6-11.6)	SPLP East	Solid	1312	
500-121504-11	1314V3-18-B06 (0-6)	SPLP East	Solid	1312	
500-121504-12	1314V3-18-B06 (6-12)	SPLP East	Solid	1312	
500-121504-13	1314V3-18-B06 (12-17)	SPLP East	Solid	1312	
500-121504-14	1314V3-18-B01 (0-6)	SPLP East	Solid	1312	
500-121504-15	1314V3-18-B01 (6-12)	SPLP East	Solid	1312	
500-121504-16	1314V3-18-B01 (12-18)	SPLP East	Solid	1312	
500-121504-17	1314V3-18-B05 (0-8)	SPLP East	Solid	1312	
500-121504-18	1314V3-18-B05 (8-12)	SPLP East	Solid	1312	
500-121504-19	1314V3-18-B03 (0-6)	SPLP East	Solid	1312	
500-121504-20	1314V3-18-B03 (6-12)	SPLP East	Solid	1312	
LB 500-366138/1-B	Method Blank	SPLP East	Solid	1312	
500-121504-20 MS	1314V3-18-B03 (6-12)	SPLP East	Solid	1312	
500-121504-20 DU	1314V3-18-B03 (6-12)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Leach Batch: 366139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	1311	
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	1311	
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	1311	
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	1311	
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	1311	
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	1311	
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	1311	
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	1311	
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	1311	
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	1311	
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	1311	
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	1311	
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	1311	
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	1311	
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	1311	
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	1311	
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	1311	
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	1311	
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	1311	
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	1311	
LB 500-366139/1-B	Method Blank	TCLP	Solid	1311	
LB 500-366139/1-C	Method Blank	TCLP	Solid	1311	
500-121504-1 MS	1314V3-24-B11 (0-6)	TCLP	Solid	1311	
500-121504-20 MS	1314V3-18-B03 (6-12)	TCLP	Solid	1311	
500-121504-1 DU	1314V3-24-B11 (0-6)	TCLP	Solid	1311	
500-121504-20 DU	1314V3-18-B03 (6-12)	TCLP	Solid	1311	

Prep Batch: 366285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	3050B	
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	3050B	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	3050B	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	3050B	
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	3050B	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	3050B	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	3050B	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	3050B	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	3050B	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	3050B	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	3050B	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	3050B	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	3050B	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	3050B	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	3050B	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	3050B	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	3050B	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	3050B	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	3050B	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	3050B	
MB 500-366285/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-366285/2-A	Lab Control Sample	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Prep Batch: 366285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	3050B	
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	3050B	
500-121504-1 DU	1314V3-24-B11 (0-6)	Total/NA	Solid	3050B	

Prep Batch: 366297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	3010A	366139
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	3010A	366139
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	3010A	366139
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	3010A	366139
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	3010A	366139
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	3010A	366139
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	3010A	366139
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	3010A	366139
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	3010A	366139
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	3010A	366139
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	3010A	366139
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	3010A	366139
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	3010A	366139
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	3010A	366139
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	3010A	366139
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	3010A	366139
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	3010A	366139
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	3010A	366139
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	3010A	366139
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	3010A	366139
LB 500-366139/1-B	Method Blank	TCLP	Solid	3010A	366139
LCS 500-366297/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121504-20 MS	1314V3-18-B03 (6-12)	TCLP	Solid	3010A	366139
500-121504-20 DU	1314V3-18-B03 (6-12)	TCLP	Solid	3010A	366139

Analysis Batch: 366345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	366137
MB 500-366137/12-A	Method Blank	Total/NA	Solid	7471B	366137
LCS 500-366137/13-A	Lab Control Sample	Total/NA	Solid	7471B	366137
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	366137
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	366137
500-121504-1 DU	1314V3-24-B11 (0-6)	Total/NA	Solid	7471B	366137

Prep Batch: 366347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366139
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	7470A	366139
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	7470A	366139
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	7470A	366139
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	7470A	366139
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	7470A	366139
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	7470A	366139
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	7470A	366139
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	7470A	366139

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Prep Batch: 366347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	7470A	366139
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	7470A	366139
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	7470A	366139
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	7470A	366139
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	7470A	366139
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	7470A	366139
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	7470A	366139
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	7470A	366139
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	7470A	366139
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	7470A	366139
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	7470A	366139
LB 500-366139/1-C	Method Blank	TCLP	Solid	7470A	366139
MB 500-366347/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-366347/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121504-1 MS	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366139
500-121504-1 DU	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366139

Analysis Batch: 366456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	6010B	366297
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	6010B	366297
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	6010B	366297
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	6010B	366297
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	6010B	366297
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	6010B	366297
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	6010B	366297
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	6010B	366297
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	6010B	366297
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	6010B	366297
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	6010B	366297
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	6010B	366297
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	6010B	366297
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	6010B	366297
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	6010B	366297
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	6010B	366297
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	6010B	366297
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	6010B	366297
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	6010B	366297
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	6010B	366297
LB 500-366139/1-B	Method Blank	TCLP	Solid	6010B	366297
LCS 500-366297/2-A	Lab Control Sample	Total/NA	Solid	6010B	366297
500-121504-20 MS	1314V3-18-B03 (6-12)	TCLP	Solid	6010B	366297
500-121504-20 DU	1314V3-18-B03 (6-12)	TCLP	Solid	6010B	366297

Prep Batch: 366459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	SPLP East	Solid	3010A	366138
500-121504-2	1314V3-24-B11 (6-12)	SPLP East	Solid	3010A	366138
500-121504-3	1314V3-24-B14 (0-6)	SPLP East	Solid	3010A	366138
500-121504-4	1314V3-24-B14 (6-12)	SPLP East	Solid	3010A	366138
500-121504-5	1314V3-24-B12 (0-6)	SPLP East	Solid	3010A	366138

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Prep Batch: 366459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-6	1314V3-24-B12 (6-12)	SPLP East	Solid	3010A	366138
500-121504-7	1314V3-24-B13 (0-6)	SPLP East	Solid	3010A	366138
500-121504-9	1314V3-01-B09 (0-6)	SPLP East	Solid	3010A	366138
500-121504-10	1314V3-01-B09 (6-11.6)	SPLP East	Solid	3010A	366138
500-121504-11	1314V3-18-B06 (0-6)	SPLP East	Solid	3010A	366138
500-121504-12	1314V3-18-B06 (6-12)	SPLP East	Solid	3010A	366138
500-121504-13	1314V3-18-B06 (12-17)	SPLP East	Solid	3010A	366138
500-121504-14	1314V3-18-B01 (0-6)	SPLP East	Solid	3010A	366138
500-121504-15	1314V3-18-B01 (6-12)	SPLP East	Solid	3010A	366138
500-121504-16	1314V3-18-B01 (12-18)	SPLP East	Solid	3010A	366138
500-121504-17	1314V3-18-B05 (0-8)	SPLP East	Solid	3010A	366138
500-121504-18	1314V3-18-B05 (8-12)	SPLP East	Solid	3010A	366138
500-121504-19	1314V3-18-B03 (0-6)	SPLP East	Solid	3010A	366138
500-121504-20	1314V3-18-B03 (6-12)	SPLP East	Solid	3010A	366138
LB 500-366138/1-B	Method Blank	SPLP East	Solid	3010A	366138
LCS 500-366459/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121504-20 MS	1314V3-18-B03 (6-12)	SPLP East	Solid	3010A	366138
500-121504-20 DU	1314V3-18-B03 (6-12)	SPLP East	Solid	3010A	366138

Analysis Batch: 366502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	6020A	366297
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	6020A	366297
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	6020A	366297
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	6020A	366297
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	6020A	366297
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	6020A	366297
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	6020A	366297
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	6020A	366297
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	6020A	366297
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	6020A	366297
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	6020A	366297
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	6020A	366297
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	6020A	366297
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	6020A	366297
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	6020A	366297
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	6020A	366297
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	6020A	366297
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	6020A	366297
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	6020A	366297
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	6020A	366297
LB 500-366139/1-B	Method Blank	TCLP	Solid	6020A	366297
LCS 500-366297/2-A	Lab Control Sample	Total/NA	Solid	6020A	366297
500-121504-20 MS	1314V3-18-B03 (6-12)	TCLP	Solid	6020A	366297
500-121504-20 DU	1314V3-18-B03 (6-12)	TCLP	Solid	6020A	366297

Analysis Batch: 366539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366347
500-121504-2	1314V3-24-B11 (6-12)	TCLP	Solid	7470A	366347
500-121504-3	1314V3-24-B14 (0-6)	TCLP	Solid	7470A	366347

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Analysis Batch: 366539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-4	1314V3-24-B14 (6-12)	TCLP	Solid	7470A	366347
500-121504-5	1314V3-24-B12 (0-6)	TCLP	Solid	7470A	366347
500-121504-6	1314V3-24-B12 (6-12)	TCLP	Solid	7470A	366347
500-121504-7	1314V3-24-B13 (0-6)	TCLP	Solid	7470A	366347
500-121504-8	1314V3-24-B13 (6-12)	TCLP	Solid	7470A	366347
500-121504-9	1314V3-01-B09 (0-6)	TCLP	Solid	7470A	366347
500-121504-10	1314V3-01-B09 (6-11.6)	TCLP	Solid	7470A	366347
500-121504-11	1314V3-18-B06 (0-6)	TCLP	Solid	7470A	366347
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	7470A	366347
500-121504-13	1314V3-18-B06 (12-17)	TCLP	Solid	7470A	366347
500-121504-14	1314V3-18-B01 (0-6)	TCLP	Solid	7470A	366347
500-121504-15	1314V3-18-B01 (6-12)	TCLP	Solid	7470A	366347
500-121504-16	1314V3-18-B01 (12-18)	TCLP	Solid	7470A	366347
500-121504-17	1314V3-18-B05 (0-8)	TCLP	Solid	7470A	366347
500-121504-18	1314V3-18-B05 (8-12)	TCLP	Solid	7470A	366347
500-121504-19	1314V3-18-B03 (0-6)	TCLP	Solid	7470A	366347
500-121504-20	1314V3-18-B03 (6-12)	TCLP	Solid	7470A	366347
LB 500-366139/1-C	Method Blank	TCLP	Solid	7470A	366347
MB 500-366347/12-A	Method Blank	Total/NA	Solid	7470A	366347
LCS 500-366347/13-A	Lab Control Sample	Total/NA	Solid	7470A	366347
500-121504-1 MS	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366347
500-121504-1 DU	1314V3-24-B11 (0-6)	TCLP	Solid	7470A	366347

Analysis Batch: 366566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-12	1314V3-18-B06 (6-12)	TCLP	Solid	6010B	366297

Analysis Batch: 366688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	6010B	366285
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	6010B	366285
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	6010B	366285
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	6010B	366285
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	6010B	366285
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	6010B	366285
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	6010B	366285
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	6010B	366285
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	6010B	366285
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	6010B	366285
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	6010B	366285
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	6010B	366285
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	6010B	366285
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	6010B	366285
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	6010B	366285
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	6010B	366285
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	6010B	366285
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	6010B	366285
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	6010B	366285
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	6010B	366285
MB 500-366285/1-A	Method Blank	Total/NA	Solid	6010B	366285
LCS 500-366285/2-A	Lab Control Sample	Total/NA	Solid	6010B	366285

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Metals (Continued)

Analysis Batch: 366688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1 MS	1314V3-24-B11 (0-6)	Total/NA	Solid	6010B	366285
500-121504-1 MSD	1314V3-24-B11 (0-6)	Total/NA	Solid	6010B	366285
500-121504-1 DU	1314V3-24-B11 (0-6)	Total/NA	Solid	6010B	366285

Analysis Batch: 366689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-5	1314V3-24-B12 (0-6)	SPLP East	Solid	6020A	366459
500-121504-7	1314V3-24-B13 (0-6)	SPLP East	Solid	6020A	366459
LB 500-366138/1-B	Method Blank	SPLP East	Solid	6020A	366459
LCS 500-366459/2-A	Lab Control Sample	Total/NA	Solid	6020A	366459

Analysis Batch: 366836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	SPLP East	Solid	6010B	366459
500-121504-2	1314V3-24-B11 (6-12)	SPLP East	Solid	6010B	366459
500-121504-3	1314V3-24-B14 (0-6)	SPLP East	Solid	6010B	366459
500-121504-4	1314V3-24-B14 (6-12)	SPLP East	Solid	6010B	366459
500-121504-5	1314V3-24-B12 (0-6)	SPLP East	Solid	6010B	366459
500-121504-6	1314V3-24-B12 (6-12)	SPLP East	Solid	6010B	366459
500-121504-7	1314V3-24-B13 (0-6)	SPLP East	Solid	6010B	366459
500-121504-9	1314V3-01-B09 (0-6)	SPLP East	Solid	6010B	366459
500-121504-10	1314V3-01-B09 (6-11.6)	SPLP East	Solid	6010B	366459
500-121504-11	1314V3-18-B06 (0-6)	SPLP East	Solid	6010B	366459
500-121504-12	1314V3-18-B06 (6-12)	SPLP East	Solid	6010B	366459
500-121504-13	1314V3-18-B06 (12-17)	SPLP East	Solid	6010B	366459
500-121504-14	1314V3-18-B01 (0-6)	SPLP East	Solid	6010B	366459
500-121504-15	1314V3-18-B01 (6-12)	SPLP East	Solid	6010B	366459
500-121504-16	1314V3-18-B01 (12-18)	SPLP East	Solid	6010B	366459
500-121504-17	1314V3-18-B05 (0-8)	SPLP East	Solid	6010B	366459
500-121504-18	1314V3-18-B05 (8-12)	SPLP East	Solid	6010B	366459
500-121504-19	1314V3-18-B03 (0-6)	SPLP East	Solid	6010B	366459
500-121504-20	1314V3-18-B03 (6-12)	SPLP East	Solid	6010B	366459
LB 500-366138/1-B	Method Blank	SPLP East	Solid	6010B	366459
LCS 500-366459/2-A	Lab Control Sample	Total/NA	Solid	6010B	366459
500-121504-20 MS	1314V3-18-B03 (6-12)	SPLP East	Solid	6010B	366459
500-121504-20 DU	1314V3-18-B03 (6-12)	SPLP East	Solid	6010B	366459

Analysis Batch: 366837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	6010B	366285
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	6010B	366285

General Chemistry

Analysis Batch: 365831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	Moisture	
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	Moisture	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	Moisture	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

General Chemistry (Continued)

Analysis Batch: 365831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	Moisture	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	Moisture	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	Moisture	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	Moisture	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	Moisture	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	Moisture	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	Moisture	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	Moisture	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	Moisture	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	Moisture	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	Moisture	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	Moisture	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	Moisture	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	Moisture	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	Moisture	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	Moisture	
500-121504-1 DU	1314V3-24-B11 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 366411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121504-1	1314V3-24-B11 (0-6)	Total/NA	Solid	9045D	
500-121504-2	1314V3-24-B11 (6-12)	Total/NA	Solid	9045D	
500-121504-3	1314V3-24-B14 (0-6)	Total/NA	Solid	9045D	
500-121504-4	1314V3-24-B14 (6-12)	Total/NA	Solid	9045D	
500-121504-5	1314V3-24-B12 (0-6)	Total/NA	Solid	9045D	
500-121504-6	1314V3-24-B12 (6-12)	Total/NA	Solid	9045D	
500-121504-7	1314V3-24-B13 (0-6)	Total/NA	Solid	9045D	
500-121504-8	1314V3-24-B13 (6-12)	Total/NA	Solid	9045D	
500-121504-9	1314V3-01-B09 (0-6)	Total/NA	Solid	9045D	
500-121504-10	1314V3-01-B09 (6-11.6)	Total/NA	Solid	9045D	
500-121504-11	1314V3-18-B06 (0-6)	Total/NA	Solid	9045D	
500-121504-12	1314V3-18-B06 (6-12)	Total/NA	Solid	9045D	
500-121504-13	1314V3-18-B06 (12-17)	Total/NA	Solid	9045D	
500-121504-14	1314V3-18-B01 (0-6)	Total/NA	Solid	9045D	
500-121504-15	1314V3-18-B01 (6-12)	Total/NA	Solid	9045D	
500-121504-16	1314V3-18-B01 (12-18)	Total/NA	Solid	9045D	
500-121504-17	1314V3-18-B05 (0-8)	Total/NA	Solid	9045D	
500-121504-18	1314V3-18-B05 (8-12)	Total/NA	Solid	9045D	
500-121504-19	1314V3-18-B03 (0-6)	Total/NA	Solid	9045D	
500-121504-20	1314V3-18-B03 (6-12)	Total/NA	Solid	9045D	
500-121504-11 DU	1314V3-18-B06 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121504-1	1314V3-24-B11 (0-6)	101	117	120	110
500-121504-2	1314V3-24-B11 (6-12)	101	119	123	109
500-121504-3	1314V3-24-B14 (0-6)	99	120	126	109
500-121504-4	1314V3-24-B14 (6-12)	102	120	121	108
500-121504-5	1314V3-24-B12 (0-6)	72	120	122	135 X
500-121504-6	1314V3-24-B12 (6-12)	98	116	119	108
500-121504-7	1314V3-24-B13 (0-6)	81	114	118	124 X
500-121504-8	1314V3-24-B13 (6-12)	98	120	129	112
500-121504-9	1314V3-01-B09 (0-6)	99	116	123	110
500-121504-10	1314V3-01-B09 (6-11.6)	100	117	122	110
500-121504-11	1314V3-18-B06 (0-6)	90	120	121	118
500-121504-12	1314V3-18-B06 (6-12)	102	119	123	110
500-121504-13	1314V3-18-B06 (12-17)	99	116	117	110
500-121504-14	1314V3-18-B01 (0-6)	100	117	130	109
500-121504-15	1314V3-18-B01 (6-12)	97	117	121	110
500-121504-16	1314V3-18-B01 (12-18)	98	117	121	110
500-121504-17	1314V3-18-B05 (0-8)	100	118	123	108
500-121504-18	1314V3-18-B05 (8-12)	100	120	123	110
500-121504-19	1314V3-18-B03 (0-6)	100	117	120	108
500-121504-20	1314V3-18-B03 (6-12)	95	117	120	108
LCS 500-365775/4	Lab Control Sample	107	116	115	112
LCS 500-365926/4	Lab Control Sample	111	114	115	112
LCS 500-366116/5	Lab Control Sample	109	112	110	112
LCSD 500-365775/5	Lab Control Sample Dup	112	115	113	113
LCSD 500-365926/5	Lab Control Sample Dup	109	114	111	110
LCSD 500-366116/6	Lab Control Sample Dup	107	110	107	112
MB 500-365775/28	Method Blank	98	116	111	109
MB 500-365926/7	Method Blank	100	116	116	111
MB 500-366116/8	Method Blank	100	114	108	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121504-1	1314V3-24-B11 (0-6)	97	86	88	80	47	82
500-121504-1 MS	1314V3-24-B11 (0-6)	97	109	87	81	60	92
500-121504-1 MSD	1314V3-24-B11 (0-6)	90	91	82	80	63	102
500-121504-2	1314V3-24-B11 (6-12)	97	94	83	76	54	99
500-121504-3	1314V3-24-B14 (0-6)	97	65	88	85	51	94
500-121504-4	1314V3-24-B14 (6-12)	99	50	87	80	52	91
500-121504-5	1314V3-24-B12 (0-6)	102	59	92	83	46	89

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121504-6	1314V3-24-B12 (6-12)	94	56	80	75	48	91
500-121504-7	1314V3-24-B13 (0-6)	100	65	89	85	40	91
500-121504-8	1314V3-24-B13 (6-12)	99	84	88	80	36	95
500-121504-9	1314V3-01-B09 (0-6)	99	74	89	84	25	87
500-121504-10	1314V3-01-B09 (6-11.6)	104	58	95	85	38	86
500-121504-11	1314V3-18-B06 (0-6)	108	105	98	87	43	91
500-121504-12	1314V3-18-B06 (6-12)	104	93	96	85	55	88
500-121504-13	1314V3-18-B06 (12-17)	105	77	93	88	47	93
500-121504-14	1314V3-18-B01 (0-6)	112	99	103	92	53	92
500-121504-15	1314V3-18-B01 (6-12)	116	102	102	90	46	92
500-121504-16	1314V3-18-B01 (12-18)	115	105	103	94	50	94
500-121504-17	1314V3-18-B05 (0-8)	110	98	97	89	55	92
500-121504-18	1314V3-18-B05 (8-12)	96	83	91	82	46	83
500-121504-19	1314V3-18-B03 (0-6)	112	100	105	91	53	92
500-121504-20	1314V3-18-B03 (6-12)	94	81	89	82	44	86
LCS 500-366449/2-A	Lab Control Sample	108	103	95	85	80	95
MB 500-366449/1-A	Method Blank	102	102	87	89	65	97

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-365775/28

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/19/16 15:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/19/16 15:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/19/16 15:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/19/16 15:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/19/16 15:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/19/16 15:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/19/16 15:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/19/16 15:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/19/16 15:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/19/16 15:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/19/16 15:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/19/16 15:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/19/16 15:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/19/16 15:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/19/16 15:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/19/16 15:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/19/16 15:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/19/16 15:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/19/16 15:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/19/16 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/19/16 15:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/19/16 15:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/19/16 15:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/19/16 15:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/19/16 15:10	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/19/16 15:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/19/16 15:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/19/16 15:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/19/16 15:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/19/16 15:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/19/16 15:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/19/16 15:10	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/19/16 15:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/19/16 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120		12/19/16 15:10	1
Dibromofluoromethane	116		75 - 120		12/19/16 15:10	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134		12/19/16 15:10	1
Toluene-d8 (Surr)	109		75 - 123		12/19/16 15:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365775/4

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0494		mg/Kg		99	40 - 148
Benzene	0.0500	0.0446		mg/Kg		89	70 - 120
Bromodichloromethane	0.0500	0.0464		mg/Kg		93	67 - 120
Bromoform	0.0500	0.0492		mg/Kg		98	50 - 129
Bromomethane	0.0500	0.0502		mg/Kg		100	50 - 134
2-Butanone (MEK)	0.0500	0.0455		mg/Kg		91	47 - 138
Carbon disulfide	0.0500	0.0379		mg/Kg		76	67 - 133
Carbon tetrachloride	0.0500	0.0514		mg/Kg		103	65 - 123
Chlorobenzene	0.0500	0.0444		mg/Kg		89	70 - 120
Chloroethane	0.0500	0.0488		mg/Kg		98	40 - 150
Chloroform	0.0500	0.0472		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0426		mg/Kg		85	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0456		mg/Kg		91	70 - 120
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	68 - 120
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0472		mg/Kg		94	65 - 126
1,1-Dichloroethene	0.0500	0.0404		mg/Kg		81	70 - 122
1,2-Dichloropropane	0.0500	0.0425		mg/Kg		85	70 - 126
Ethylbenzene	0.0500	0.0452		mg/Kg		90	70 - 120
2-Hexanone	0.0500	0.0441		mg/Kg		88	51 - 139
Methylene Chloride	0.0500	0.0425		mg/Kg		85	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0443		mg/Kg		89	51 - 141
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	70 - 121
Styrene	0.0500	0.0452		mg/Kg		90	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0472		mg/Kg		94	70 - 122
Toluene	0.0500	0.0438		mg/Kg		88	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	70 - 121
1,1,1-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0451		mg/Kg		90	70 - 120
Trichloroethene	0.0500	0.0482		mg/Kg		96	70 - 124
Vinyl acetate	0.0500	0.0357		mg/Kg		71	40 - 150
Vinyl chloride	0.0500	0.0450		mg/Kg		90	64 - 125
Xylenes, Total	0.100	0.0908		mg/Kg		91	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 120
Dibromofluoromethane	116		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365775/5

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0437		mg/Kg		87	40 - 148	12	30
Benzene	0.0500	0.0427		mg/Kg		85	70 - 120	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 120	2	30
Bromoform	0.0500	0.0479		mg/Kg		96	50 - 129	3	30
Bromomethane	0.0500	0.0477		mg/Kg		95	50 - 134	5	30
2-Butanone (MEK)	0.0500	0.0414		mg/Kg		83	47 - 138	9	30
Carbon disulfide	0.0500	0.0359		mg/Kg		72	67 - 133	5	30
Carbon tetrachloride	0.0500	0.0488		mg/Kg		98	65 - 123	5	30
Chlorobenzene	0.0500	0.0431		mg/Kg		86	70 - 120	3	30
Chloroethane	0.0500	0.0452		mg/Kg		90	40 - 150	8	30
Chloroform	0.0500	0.0456		mg/Kg		91	70 - 120	3	30
Chloromethane	0.0500	0.0417		mg/Kg		83	63 - 135	2	30
cis-1,2-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	1	30
cis-1,3-Dichloropropene	0.0500	0.0439		mg/Kg		88	70 - 120	4	30
Dibromochloromethane	0.0500	0.0463		mg/Kg		93	68 - 120	3	30
1,1-Dichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0458		mg/Kg		92	65 - 126	3	30
1,1-Dichloroethene	0.0500	0.0388		mg/Kg		78	70 - 122	4	30
1,2-Dichloropropane	0.0500	0.0411		mg/Kg		82	70 - 126	3	30
Ethylbenzene	0.0500	0.0440		mg/Kg		88	70 - 120	3	30
2-Hexanone	0.0500	0.0412		mg/Kg		82	51 - 139	7	30
Methylene Chloride	0.0500	0.0410		mg/Kg		82	70 - 121	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0414		mg/Kg		83	51 - 141	7	30
Methyl tert-butyl ether	0.0500	0.0440		mg/Kg		88	70 - 121	2	30
Styrene	0.0500	0.0439		mg/Kg		88	70 - 121	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	5	30
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 122	3	30
Toluene	0.0500	0.0429		mg/Kg		86	70 - 121	2	30
trans-1,2-Dichloroethene	0.0500	0.0430		mg/Kg		86	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 121	3	30
1,1,1-Trichloroethane	0.0500	0.0456		mg/Kg		91	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 120	5	30
Trichloroethene	0.0500	0.0443		mg/Kg		89	70 - 124	8	30
Vinyl acetate	0.0500	0.0345		mg/Kg		69	40 - 150	3	30
Vinyl chloride	0.0500	0.0439		mg/Kg		88	64 - 125	2	30
Xylenes, Total	0.100	0.0874		mg/Kg		87	70 - 123	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 120
Dibromofluoromethane	115		75 - 120
1,2-Dichloroethane-d4 (Surr)	113		69 - 134
Toluene-d8 (Surr)	113		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-365926/7

Matrix: Solid

Analysis Batch: 365926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/20/16 15:00	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/20/16 15:00	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/20/16 15:00	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/20/16 15:00	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/20/16 15:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/20/16 15:00	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/20/16 15:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/20/16 15:00	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/20/16 15:00	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/20/16 15:00	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 15:00	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/20/16 15:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/20/16 15:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/20/16 15:00	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/20/16 15:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 15:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/20/16 15:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 15:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/20/16 15:00	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/20/16 15:00	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/20/16 15:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/20/16 15:00	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/20/16 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/20/16 15:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/20/16 15:00	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/20/16 15:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/20/16 15:00	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/20/16 15:00	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/20/16 15:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/20/16 15:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/20/16 15:00	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/20/16 15:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/20/16 15:00	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/20/16 15:00	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/20/16 15:00	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/20/16 15:00	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/20/16 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120		12/20/16 15:00	1
Dibromofluoromethane	116		75 - 120		12/20/16 15:00	1
1,2-Dichloroethane-d4 (Surr)	116		69 - 134		12/20/16 15:00	1
Toluene-d8 (Surr)	111		75 - 123		12/20/16 15:00	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365926/4

Matrix: Solid

Analysis Batch: 365926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0541		mg/Kg		108	40 - 148
Benzene	0.0500	0.0530		mg/Kg		106	70 - 120
Bromodichloromethane	0.0500	0.0544		mg/Kg		109	67 - 120
Bromoform	0.0500	0.0544		mg/Kg		109	50 - 129
Bromomethane	0.0500	0.0584		mg/Kg		117	50 - 134
2-Butanone (MEK)	0.0500	0.0439		mg/Kg		88	47 - 138
Carbon disulfide	0.0500	0.0580		mg/Kg		116	67 - 133
Carbon tetrachloride	0.0500	0.0624	*	mg/Kg		125	65 - 123
Chlorobenzene	0.0500	0.0528		mg/Kg		106	70 - 120
Chloroethane	0.0500	0.0514		mg/Kg		103	40 - 150
Chloroform	0.0500	0.0573		mg/Kg		115	70 - 120
Chloromethane	0.0500	0.0475		mg/Kg		95	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0541		mg/Kg		108	70 - 120
Dibromochloromethane	0.0500	0.0578		mg/Kg		116	68 - 120
1,1-Dichloroethane	0.0500	0.0525		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0500	0.0573		mg/Kg		115	65 - 126
1,1-Dichloroethene	0.0500	0.0560		mg/Kg		112	70 - 122
1,2-Dichloropropane	0.0500	0.0485		mg/Kg		97	70 - 126
Ethylbenzene	0.0500	0.0546		mg/Kg		109	70 - 120
2-Hexanone	0.0500	0.0436		mg/Kg		87	51 - 139
Methylene Chloride	0.0500	0.0539		mg/Kg		108	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0428		mg/Kg		86	51 - 141
Methyl tert-butyl ether	0.0500	0.0531		mg/Kg		106	70 - 121
Styrene	0.0500	0.0535		mg/Kg		107	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 125
Tetrachloroethene	0.0500	0.0559		mg/Kg		112	70 - 122
Toluene	0.0500	0.0522		mg/Kg		104	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0567		mg/Kg		113	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0561		mg/Kg		112	70 - 121
1,1,1-Trichloroethane	0.0500	0.0602		mg/Kg		120	70 - 120
1,1,2-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 120
Trichloroethene	0.0500	0.0564		mg/Kg		113	70 - 124
Vinyl acetate	0.0500	0.0459		mg/Kg		92	40 - 150
Vinyl chloride	0.0500	0.0498		mg/Kg		100	64 - 125
Xylenes, Total	0.100	0.109		mg/Kg		109	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 120
Dibromofluoromethane	114		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365926/5
Matrix: Solid
Analysis Batch: 365926

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0454		mg/Kg		91	40 - 148	17	30
Benzene	0.0500	0.0492		mg/Kg		98	70 - 120	7	30
Bromodichloromethane	0.0500	0.0506		mg/Kg		101	67 - 120	7	30
Bromoform	0.0500	0.0495		mg/Kg		99	50 - 129	9	30
Bromomethane	0.0500	0.0534		mg/Kg		107	50 - 134	9	30
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138	13	30
Carbon disulfide	0.0500	0.0540		mg/Kg		108	67 - 133	7	30
Carbon tetrachloride	0.0500	0.0583		mg/Kg		117	65 - 123	7	30
Chlorobenzene	0.0500	0.0481		mg/Kg		96	70 - 120	9	30
Chloroethane	0.0500	0.0460		mg/Kg		92	40 - 150	11	30
Chloroform	0.0500	0.0525		mg/Kg		105	70 - 120	9	30
Chloromethane	0.0500	0.0452		mg/Kg		90	63 - 135	5	30
cis-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 120	8	30
cis-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 120	11	30
Dibromochloromethane	0.0500	0.0510		mg/Kg		102	68 - 120	13	30
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0529		mg/Kg		106	65 - 126	8	30
1,1-Dichloroethene	0.0500	0.0531		mg/Kg		106	70 - 122	5	30
1,2-Dichloropropane	0.0500	0.0467		mg/Kg		93	70 - 126	4	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	70 - 120	9	30
2-Hexanone	0.0500	0.0356		mg/Kg		71	51 - 139	20	30
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 121	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0359		mg/Kg		72	51 - 141	17	30
Methyl tert-butyl ether	0.0500	0.0489		mg/Kg		98	70 - 121	8	30
Styrene	0.0500	0.0493		mg/Kg		99	70 - 121	8	30
1,1,1,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 125	9	30
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 122	8	30
Toluene	0.0500	0.0489		mg/Kg		98	70 - 121	7	30
trans-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 120	8	30
trans-1,3-Dichloropropene	0.0500	0.0507		mg/Kg		101	70 - 121	10	30
1,1,1-Trichloroethane	0.0500	0.0546		mg/Kg		109	70 - 120	10	30
1,1,2-Trichloroethane	0.0500	0.0464		mg/Kg		93	70 - 120	7	30
Trichloroethene	0.0500	0.0531		mg/Kg		106	70 - 124	6	30
Vinyl acetate	0.0500	0.0420		mg/Kg		84	40 - 150	9	30
Vinyl chloride	0.0500	0.0468		mg/Kg		94	64 - 125	6	30
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 123	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	109		70 - 120
Dibromofluoromethane	114		75 - 120
1,2-Dichloroethane-d4 (Surr)	111		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366116/8
Matrix: Solid
Analysis Batch: 366116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/21/16 15:26	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 15:26	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/21/16 15:26	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 15:26	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/21/16 15:26	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/21/16 15:26	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/21/16 15:26	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 15:26	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/21/16 15:26	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 15:26	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 15:26	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 15:26	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/21/16 15:26	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 15:26	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/21/16 15:26	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 15:26	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 15:26	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 15:26	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/21/16 15:26	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 15:26	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/21/16 15:26	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 15:26	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 15:26	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/21/16 15:26	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 15:26	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/21/16 15:26	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 15:26	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 15:26	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 15:26	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 15:26	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/21/16 15:26	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/21/16 15:26	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 15:26	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/21/16 15:26	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 15:26	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/21/16 15:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120		12/21/16 15:26	1
Dibromofluoromethane	114		75 - 120		12/21/16 15:26	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134		12/21/16 15:26	1
Toluene-d8 (Surr)	111		75 - 123		12/21/16 15:26	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366116/5
Matrix: Solid
Analysis Batch: 366116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0495		mg/Kg		99	40 - 148
Benzene	0.0500	0.0508		mg/Kg		102	70 - 120
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 120
Bromoform	0.0500	0.0513		mg/Kg		103	50 - 129
Bromomethane	0.0500	0.0533		mg/Kg		107	50 - 134
2-Butanone (MEK)	0.0500	0.0442		mg/Kg		88	47 - 138
Carbon disulfide	0.0500	0.0542		mg/Kg		108	67 - 133
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	65 - 123
Chlorobenzene	0.0500	0.0481		mg/Kg		96	70 - 120
Chloroethane	0.0500	0.0512		mg/Kg		102	40 - 150
Chloroform	0.0500	0.0521		mg/Kg		104	70 - 120
Chloromethane	0.0500	0.0499		mg/Kg		100	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0494		mg/Kg		99	68 - 120
1,1-Dichloroethane	0.0500	0.0509		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0522		mg/Kg		104	65 - 126
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 122
1,2-Dichloropropane	0.0500	0.0502		mg/Kg		100	70 - 126
Ethylbenzene	0.0500	0.0506		mg/Kg		101	70 - 120
2-Hexanone	0.0500	0.0424		mg/Kg		85	51 - 139
Methylene Chloride	0.0500	0.0505		mg/Kg		101	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0407		mg/Kg		81	51 - 141
Methyl tert-butyl ether	0.0500	0.0497		mg/Kg		99	70 - 121
Styrene	0.0500	0.0492		mg/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 125
Tetrachloroethene	0.0500	0.0509		mg/Kg		102	70 - 122
Toluene	0.0500	0.0480		mg/Kg		96	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0519		mg/Kg		104	70 - 121
1,1,1-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 120
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0525		mg/Kg		105	70 - 124
Vinyl acetate	0.0500	0.0454		mg/Kg		91	40 - 150
Vinyl chloride	0.0500	0.0509		mg/Kg		102	64 - 125
Xylenes, Total	0.100	0.0995		mg/Kg		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 120
Dibromofluoromethane	112		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-366116/6

Matrix: Solid

Analysis Batch: 366116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0442		mg/Kg		88	40 - 148	11	30
Benzene	0.0500	0.0443		mg/Kg		89	70 - 120	14	30
Bromodichloromethane	0.0500	0.0427		mg/Kg		85	67 - 120	16	30
Bromoform	0.0500	0.0431		mg/Kg		86	50 - 129	17	30
Bromomethane	0.0500	0.0456		mg/Kg		91	50 - 134	16	30
2-Butanone (MEK)	0.0500	0.0391		mg/Kg		78	47 - 138	12	30
Carbon disulfide	0.0500	0.0468		mg/Kg		94	67 - 133	15	30
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	65 - 123	14	30
Chlorobenzene	0.0500	0.0430		mg/Kg		86	70 - 120	11	30
Chloroethane	0.0500	0.0438		mg/Kg		88	40 - 150	16	30
Chloroform	0.0500	0.0447		mg/Kg		89	70 - 120	15	30
Chloromethane	0.0500	0.0449		mg/Kg		90	63 - 135	10	30
cis-1,2-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	15	30
cis-1,3-Dichloropropene	0.0500	0.0430		mg/Kg		86	70 - 120	15	30
Dibromochloromethane	0.0500	0.0429		mg/Kg		86	68 - 120	14	30
1,1-Dichloroethane	0.0500	0.0441		mg/Kg		88	70 - 125	14	30
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	65 - 126	15	30
1,1-Dichloroethene	0.0500	0.0441		mg/Kg		88	70 - 122	16	30
1,2-Dichloropropane	0.0500	0.0429		mg/Kg		86	70 - 126	16	30
Ethylbenzene	0.0500	0.0433		mg/Kg		87	70 - 120	16	30
2-Hexanone	0.0500	0.0393		mg/Kg		79	51 - 139	8	30
Methylene Chloride	0.0500	0.0425		mg/Kg		85	70 - 121	17	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0376		mg/Kg		75	51 - 141	8	30
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	70 - 121	16	30
Styrene	0.0500	0.0427		mg/Kg		85	70 - 121	14	30
1,1,1,2-Tetrachloroethane	0.0500	0.0415		mg/Kg		83	70 - 125	13	30
Tetrachloroethene	0.0500	0.0453		mg/Kg		91	70 - 122	12	30
Toluene	0.0500	0.0423		mg/Kg		85	70 - 121	13	30
trans-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 120	15	30
trans-1,3-Dichloropropene	0.0500	0.0437		mg/Kg		87	70 - 121	17	30
1,1,1-Trichloroethane	0.0500	0.0452		mg/Kg		90	70 - 120	13	30
1,1,2-Trichloroethane	0.0500	0.0408		mg/Kg		82	70 - 120	16	30
Trichloroethene	0.0500	0.0451		mg/Kg		90	70 - 124	15	30
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 150	9	30
Vinyl chloride	0.0500	0.0450		mg/Kg		90	64 - 125	12	30
Xylenes, Total	0.100	0.0872		mg/Kg		87	70 - 123	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	107		70 - 120
Dibromofluoromethane	110		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366449/1-A

Matrix: Solid

Analysis Batch: 366695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/23/16 07:12	12/27/16 14:44	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366449/1-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/23/16 07:12	12/27/16 14:44	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/23/16 07:12	12/27/16 14:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/23/16 07:12	12/27/16 14:44	1
Phenol-d5	102		36 - 123	12/23/16 07:12	12/27/16 14:44	1
Nitrobenzene-d5	87		33 - 124	12/23/16 07:12	12/27/16 14:44	1
2-Fluorobiphenyl	89		42 - 115	12/23/16 07:12	12/27/16 14:44	1
2,4,6-Tribromophenol	65		25 - 130	12/23/16 07:12	12/27/16 14:44	1
Terphenyl-d14	97		25 - 150	12/23/16 07:12	12/27/16 14:44	1

Lab Sample ID: LCS 500-366449/2-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.28		mg/Kg		96	55 - 118
Bis(2-chloroethyl)ether	1.33	1.26		mg/Kg		94	53 - 116
1,3-Dichlorobenzene	1.33	1.12		mg/Kg		84	56 - 110
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		85	57 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	56 - 110
2-Methylphenol	1.33	1.26		mg/Kg		95	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		94	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.35		mg/Kg		101	56 - 119
Hexachloroethane	1.33	1.18		mg/Kg		88	54 - 111
2-Chlorophenol	1.33	1.21		mg/Kg		90	57 - 117
Nitrobenzene	1.33	1.22		mg/Kg		92	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.27		mg/Kg		96	59 - 116
1,2,4-Trichlorobenzene	1.33	1.12		mg/Kg		84	60 - 116
Isophorone	1.33	1.20		mg/Kg		90	54 - 120
2,4-Dimethylphenol	1.33	1.15		mg/Kg		87	50 - 120
Hexachlorobutadiene	1.33	1.10		mg/Kg		82	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	58 - 116
2,4-Dichlorophenol	1.33	1.19		mg/Kg		90	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366449/2-A

Matrix: Solid

Analysis Batch: 366695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 366449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
4-Chloroaniline	1.33	0.690		mg/Kg		52	10 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	50 - 120
2,4,5-Trichlorophenol	1.33	1.10		mg/Kg		82	42 - 119
Hexachlorocyclopentadiene	1.33	0.527	J	mg/Kg		40	10 - 116
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	55 - 120
2-Nitroaniline	1.33	1.34		mg/Kg		100	52 - 121
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	57 - 112
4-Chloro-3-methylphenol	1.33	1.25		mg/Kg		93	59 - 117
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	57 - 118
2-Nitrophenol	1.33	1.21		mg/Kg		91	58 - 121
3-Nitroaniline	1.33	0.900		mg/Kg		68	20 - 144
Dimethyl phthalate	1.33	1.20		mg/Kg		90	60 - 112
2,4-Dinitrophenol	2.67	0.670		mg/Kg		25	10 - 110
Acenaphthylene	1.33	1.15		mg/Kg		86	57 - 116
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		94	59 - 119
Acenaphthene	1.33	1.17		mg/Kg		88	52 - 113
Dibenzofuran	1.33	1.19		mg/Kg		89	59 - 110
4-Nitrophenol	2.67	2.06		mg/Kg		77	32 - 123
Fluorene	1.33	1.18		mg/Kg		88	56 - 115
4-Nitroaniline	1.33	1.69		mg/Kg		127	55 - 146
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		88	61 - 124
Hexachlorobenzene	1.33	1.11		mg/Kg		83	62 - 126
Diethyl phthalate	1.33	1.22		mg/Kg		92	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		88	61 - 111
Pentachlorophenol	2.67	2.39		mg/Kg		90	12 - 116
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.12		mg/Kg		42	10 - 110
Phenanthrene	1.33	1.20		mg/Kg		90	58 - 125
Anthracene	1.33	1.22		mg/Kg		91	57 - 118
Carbazole	1.33	1.43		mg/Kg		107	65 - 137
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	61 - 123
Fluoranthene	1.33	1.22		mg/Kg		92	61 - 124
Pyrene	1.33	1.23		mg/Kg		92	60 - 115
Butyl benzyl phthalate	1.33	1.34		mg/Kg		100	61 - 115
Benzo[a]anthracene	1.33	1.19		mg/Kg		89	63 - 115
Chrysene	1.33	1.18		mg/Kg		89	63 - 118
3,3'-Dichlorobenzidine	1.33	1.03		mg/Kg		77	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.37		mg/Kg		102	62 - 117
Di-n-octyl phthalate	1.33	1.35		mg/Kg		101	58 - 129
Benzo[b]fluoranthene	1.33	1.24		mg/Kg		93	61 - 123
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	59 - 125
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.24		mg/Kg		93	50 - 149
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	61 - 134
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	55 - 134
3 & 4 Methylphenol	1.33	1.54		mg/Kg		116	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366449/2-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366449

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	108		40 - 130
Phenol-d5	103		36 - 123
Nitrobenzene-d5	95		33 - 124
2-Fluorobiphenyl	85		42 - 115
2,4,6-Tribromophenol	80		25 - 130
Terphenyl-d14	95		25 - 150

Lab Sample ID: 500-121504-1 MS
Matrix: Solid
Analysis Batch: 366771

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.20		1.54	1.48		mg/Kg	☼	96	55 - 118
Bis(2-chloroethyl)ether	<0.20		1.54	1.45		mg/Kg	☼	94	53 - 116
1,3-Dichlorobenzene	<0.20		1.54	1.09		mg/Kg	☼	71	56 - 110
1,4-Dichlorobenzene	<0.20		1.54	1.10		mg/Kg	☼	71	57 - 110
1,2-Dichlorobenzene	<0.20		1.54	1.13		mg/Kg	☼	73	56 - 110
2-Methylphenol	<0.20		1.54	1.57		mg/Kg	☼	102	53 - 123
2,2'-oxybis[1-chloropropane]	<0.20		1.54	1.65		mg/Kg	☼	107	22 - 133
N-Nitrosodi-n-propylamine	<0.079		1.54	1.51		mg/Kg	☼	98	56 - 119
Hexachloroethane	<0.20		1.54	1.04		mg/Kg	☼	68	54 - 111
2-Chlorophenol	<0.20		1.54	1.30		mg/Kg	☼	84	57 - 117
Nitrobenzene	<0.039		1.54	1.34		mg/Kg	☼	87	56 - 121
Bis(2-chloroethoxy)methane	<0.20		1.54	1.32		mg/Kg	☼	85	59 - 116
1,2,4-Trichlorobenzene	<0.20		1.54	1.10		mg/Kg	☼	72	60 - 116
Isophorone	<0.20		1.54	1.31		mg/Kg	☼	85	54 - 120
2,4-Dimethylphenol	<0.39		1.54	1.49		mg/Kg	☼	97	50 - 120
Hexachlorobutadiene	<0.20		1.54	0.966		mg/Kg	☼	63	56 - 120
Naphthalene	0.023	J	1.54	1.25		mg/Kg	☼	80	58 - 116
2,4-Dichlorophenol	<0.39		1.54	1.33		mg/Kg	☼	86	61 - 116
4-Chloroaniline	<0.79		1.54	1.22		mg/Kg	☼	79	10 - 150
2,4,6-Trichlorophenol	<0.39		1.54	1.17		mg/Kg	☼	76	50 - 120
2,4,5-Trichlorophenol	<0.39	F2	1.54	1.40		mg/Kg	☼	91	42 - 119
Hexachlorocyclopentadiene	<0.79	F1	1.54	<0.77	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	0.023	J	1.54	1.36		mg/Kg	☼	87	55 - 120
2-Nitroaniline	<0.20		1.54	1.63		mg/Kg	☼	106	52 - 121
2-Chloronaphthalene	<0.20		1.54	1.29		mg/Kg	☼	84	57 - 112
4-Chloro-3-methylphenol	<0.39		1.54	1.43		mg/Kg	☼	93	59 - 117
2,6-Dinitrotoluene	<0.20		1.54	1.32		mg/Kg	☼	85	57 - 118
2-Nitrophenol	<0.39		1.54	1.22		mg/Kg	☼	79	58 - 121
3-Nitroaniline	<0.39		1.54	1.96		mg/Kg	☼	127	20 - 144
Dimethyl phthalate	<0.20		1.54	1.32		mg/Kg	☼	85	60 - 112
2,4-Dinitrophenol	<0.79	F1	3.08	<0.77	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	0.033	J	1.54	1.37		mg/Kg	☼	87	57 - 116
2,4-Dinitrotoluene	<0.20		1.54	1.33		mg/Kg	☼	87	59 - 119
Acenaphthene	0.021	J	1.54	1.39		mg/Kg	☼	89	52 - 113
Dibenzofuran	<0.20		1.54	1.39		mg/Kg	☼	90	59 - 110
4-Nitrophenol	<0.79		3.08	1.32		mg/Kg	☼	43	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121504-1 MS

Matrix: Solid

Analysis Batch: 366771

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366449

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	0.023	J	1.54	1.37		mg/Kg	☼	87		56 - 115
4-Nitroaniline	<0.39	F1	1.54	2.18		mg/Kg	☼	142		55 - 146
4-Bromophenyl phenyl ether	<0.20		1.54	1.24		mg/Kg	☼	81		61 - 124
Hexachlorobenzene	<0.079		1.54	1.18		mg/Kg	☼	77		62 - 126
Diethyl phthalate	<0.20		1.54	1.34		mg/Kg	☼	87		58 - 117
4-Chlorophenyl phenyl ether	<0.20		1.54	1.29		mg/Kg	☼	84		61 - 111
Pentachlorophenol	<0.79		3.08	1.82		mg/Kg	☼	59		12 - 116
N-Nitrosodiphenylamine	<0.20		1.54	1.49		mg/Kg	☼	97		62 - 117
4,6-Dinitro-2-methylphenol	<0.79	F2	3.08	0.867		mg/Kg	☼	28		10 - 110
Phenanthrene	0.41		1.54	1.73		mg/Kg	☼	86		58 - 125
Anthracene	0.084		1.54	1.47		mg/Kg	☼	90		57 - 118
Carbazole	<0.20		1.54	2.04		mg/Kg	☼	133		65 - 137
Di-n-butyl phthalate	<0.20		1.54	1.46		mg/Kg	☼	95		61 - 123
Fluoranthene	0.63		1.54	2.00		mg/Kg	☼	89		61 - 124
Pyrene	0.62		1.54	2.12		mg/Kg	☼	97		60 - 115
Butyl benzyl phthalate	<0.20		1.54	1.57		mg/Kg	☼	102		61 - 115
Benzo[a]anthracene	0.31		1.54	1.92		mg/Kg	☼	105		63 - 115
Chrysene	0.33		1.54	1.84		mg/Kg	☼	98		63 - 118
3,3'-Dichlorobenzidine	<0.20	F1	1.54	0.396	F1	mg/Kg	☼	26		40 - 110
Bis(2-ethylhexyl) phthalate	<0.20		1.54	1.61		mg/Kg	☼	105		62 - 117
Di-n-octyl phthalate	<0.20		1.54	1.67		mg/Kg	☼	109		58 - 129
Benzo[b]fluoranthene	0.42	F1	1.54	2.30		mg/Kg	☼	122		61 - 123
Benzo[k]fluoranthene	0.22		1.54	1.71		mg/Kg	☼	97		59 - 125
Benzo[a]pyrene	0.31		1.54	1.79		mg/Kg	☼	96		64 - 122
Indeno[1,2,3-cd]pyrene	0.098	F1	1.54	0.770	F1	mg/Kg	☼	44		50 - 149
Dibenz(a,h)anthracene	0.032	J F1	1.54	0.747	F1	mg/Kg	☼	46		61 - 134
Benzo[g,h,i]perylene	0.11	F1	1.54	0.660	F1	mg/Kg	☼	36		55 - 134
3 & 4 Methylphenol	<0.20	F2	1.54	1.57		mg/Kg	☼	102		55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	97		40 - 130
Phenol-d5	109		36 - 123
Nitrobenzene-d5	87		33 - 124
2-Fluorobiphenyl	81		42 - 115
2,4,6-Tribromophenol	60		25 - 130
Terphenyl-d14	92		25 - 150

Lab Sample ID: 500-121504-1 MSD

Matrix: Solid

Analysis Batch: 366771

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366449

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.20		1.51	1.36		mg/Kg	☼	90		55 - 118	9	30
Bis(2-chloroethyl)ether	<0.20		1.51	1.14		mg/Kg	☼	75		53 - 116	24	30
1,3-Dichlorobenzene	<0.20		1.51	1.02		mg/Kg	☼	68		56 - 110	6	30
1,4-Dichlorobenzene	<0.20		1.51	1.03		mg/Kg	☼	68		57 - 110	6	30
1,2-Dichlorobenzene	<0.20		1.51	1.06		mg/Kg	☼	70		56 - 110	6	30
2-Methylphenol	<0.20		1.51	1.42		mg/Kg	☼	94		53 - 123	10	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121504-1 MSD

Matrix: Solid

Analysis Batch: 366771

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366449

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.20		1.51	1.44		mg/Kg	☼	95	22 - 133	14	30
N-Nitrosodi-n-propylamine	<0.079		1.51	1.35		mg/Kg	☼	89	56 - 119	11	30
Hexachloroethane	<0.20		1.51	0.942		mg/Kg	☼	62	54 - 111	10	30
2-Chlorophenol	<0.20		1.51	1.21		mg/Kg	☼	80	57 - 117	7	30
Nitrobenzene	<0.039		1.51	1.20		mg/Kg	☼	80	56 - 121	10	30
Bis(2-chloroethoxy)methane	<0.20		1.51	1.20		mg/Kg	☼	79	59 - 116	9	30
1,2,4-Trichlorobenzene	<0.20		1.51	1.04		mg/Kg	☼	69	60 - 116	6	30
Isophorone	<0.20		1.51	1.19		mg/Kg	☼	79	54 - 120	9	30
2,4-Dimethylphenol	<0.39		1.51	1.37		mg/Kg	☼	91	50 - 120	8	30
Hexachlorobutadiene	<0.20		1.51	0.907		mg/Kg	☼	60	56 - 120	6	30
Naphthalene	0.023	J	1.51	1.18		mg/Kg	☼	76	58 - 116	6	30
2,4-Dichlorophenol	<0.39		1.51	1.22		mg/Kg	☼	81	61 - 116	8	30
4-Chloroaniline	<0.79		1.51	0.943		mg/Kg	☼	62	10 - 150	25	30
2,4,6-Trichlorophenol	<0.39		1.51	1.23		mg/Kg	☼	81	50 - 120	5	30
2,4,5-Trichlorophenol	<0.39	F2	1.51	0.834	F2	mg/Kg	☼	55	42 - 119	51	30
Hexachlorocyclopentadiene	<0.79	F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	0.023	J	1.51	1.14		mg/Kg	☼	74	55 - 120	17	30
2-Nitroaniline	<0.20		1.51	1.58		mg/Kg	☼	104	52 - 121	4	30
2-Chloronaphthalene	<0.20		1.51	1.27		mg/Kg	☼	84	57 - 112	2	30
4-Chloro-3-methylphenol	<0.39		1.51	1.40		mg/Kg	☼	92	59 - 117	2	30
2,6-Dinitrotoluene	<0.20		1.51	1.27		mg/Kg	☼	84	57 - 118	4	30
2-Nitrophenol	<0.39		1.51	1.13		mg/Kg	☼	74	58 - 121	8	30
3-Nitroaniline	<0.39		1.51	2.04		mg/Kg	☼	135	20 - 144	4	30
Dimethyl phthalate	<0.20		1.51	1.26		mg/Kg	☼	83	60 - 112	4	30
2,4-Dinitrophenol	<0.79	F1	3.03	<0.76	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	0.033	J	1.51	1.31		mg/Kg	☼	84	57 - 116	4	30
2,4-Dinitrotoluene	<0.20		1.51	1.27		mg/Kg	☼	84	59 - 119	5	30
Acenaphthene	0.021	J	1.51	1.35		mg/Kg	☼	88	52 - 113	3	30
Dibenzofuran	<0.20		1.51	1.36		mg/Kg	☼	90	59 - 110	2	30
4-Nitrophenol	<0.79		3.03	1.02		mg/Kg	☼	34	32 - 123	25	30
Fluorene	0.023	J	1.51	1.37		mg/Kg	☼	89	56 - 115	0	30
4-Nitroaniline	<0.39	F1	1.51	2.24	F1	mg/Kg	☼	148	55 - 146	2	30
4-Bromophenyl phenyl ether	<0.20		1.51	1.21		mg/Kg	☼	80	61 - 124	2	30
Hexachlorobenzene	<0.079		1.51	1.15		mg/Kg	☼	76	62 - 126	3	30
Diethyl phthalate	<0.20		1.51	1.33		mg/Kg	☼	88	58 - 117	1	30
4-Chlorophenyl phenyl ether	<0.20		1.51	1.30		mg/Kg	☼	86	61 - 111	1	30
Pentachlorophenol	<0.79		3.03	1.85		mg/Kg	☼	61	12 - 116	2	30
N-Nitrosodiphenylamine	<0.20		1.51	1.45		mg/Kg	☼	96	62 - 117	3	30
4,6-Dinitro-2-methylphenol	<0.79	F2	3.03	0.352	J F2	mg/Kg	☼	12	10 - 110	84	30
Phenanthrene	0.41		1.51	1.64		mg/Kg	☼	81	58 - 125	6	30
Anthracene	0.084		1.51	1.46		mg/Kg	☼	91	57 - 118	1	30
Carbazole	<0.20		1.51	2.02		mg/Kg	☼	133	65 - 137	1	30
Di-n-butyl phthalate	<0.20		1.51	1.45		mg/Kg	☼	96	61 - 123	1	30
Fluoranthene	0.63		1.51	1.98		mg/Kg	☼	89	61 - 124	1	30
Pyrene	0.62		1.51	2.22		mg/Kg	☼	105	60 - 115	4	30
Butyl benzyl phthalate	<0.20		1.51	1.66		mg/Kg	☼	110	61 - 115	5	30
Benzo[a]anthracene	0.31		1.51	1.78		mg/Kg	☼	97	63 - 115	7	30
Chrysene	0.33		1.51	1.84		mg/Kg	☼	100	63 - 118	0	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121504-1 MSD

Matrix: Solid

Analysis Batch: 366771

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366449

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
3,3'-Dichlorobenzidine	<0.20	F1	1.51	0.444	F1	mg/Kg	☼	29	40 - 110	11	30
Bis(2-ethylhexyl) phthalate	<0.20		1.51	1.67		mg/Kg	☼	111	62 - 117	4	30
Di-n-octyl phthalate	<0.20		1.51	1.59		mg/Kg	☼	105	58 - 129	5	30
Benzo[b]fluoranthene	0.42	F1	1.51	2.41	F1	mg/Kg	☼	132	61 - 123	5	30
Benzo[k]fluoranthene	0.22		1.51	1.83		mg/Kg	☼	106	59 - 125	6	30
Benzo[a]pyrene	0.31		1.51	1.76		mg/Kg	☼	96	64 - 122	2	30
Indeno[1,2,3-cd]pyrene	0.098	F1	1.51	0.719	F1	mg/Kg	☼	41	50 - 149	7	30
Dibenz(a,h)anthracene	0.032	J F1	1.51	0.694	F1	mg/Kg	☼	44	61 - 134	7	30
Benzo[g,h,i]perylene	0.11	F1	1.51	0.609	F1	mg/Kg	☼	33	55 - 134	8	30
3 & 4 Methylphenol	<0.20	F2	1.51	1.14	F2	mg/Kg	☼	75	55 - 124	32	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	90		40 - 130
Phenol-d5	91		36 - 123
Nitrobenzene-d5	82		33 - 124
2-Fluorobiphenyl	80		42 - 115
2,4,6-Tribromophenol	63		25 - 130
Terphenyl-d14	102		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-366285/1-A

Matrix: Solid

Analysis Batch: 366688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366285

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Barium	<1.0		1.0	0.18	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Boron	<5.0		5.0	0.70	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Calcium	11.4	J	20	6.4	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Chromium	0.270	J	1.0	0.17	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Copper	<1.0		1.0	0.22	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Iron	10.3	J	20	7.7	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Lead	<0.50		0.50	0.25	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Magnesium	<10		10	4.1	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Manganese	0.204	J	1.0	0.20	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Potassium	<50		50	8.2	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Silver	<0.50		0.50	0.12	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Sodium	<100		100	13	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/22/16 08:28	12/23/16 19:04	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/22/16 08:28	12/23/16 19:04	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Lab Sample ID: LCS 500-366285/2-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366285
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	10.0	9.05		mg/Kg		91	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.98		mg/Kg		100	80 - 120
Boron	100	91.7		mg/Kg		92	80 - 120
Cadmium	5.00	4.85		mg/Kg		97	80 - 120
Calcium	1000	992		mg/Kg		99	80 - 120
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	49.3		mg/Kg		99	80 - 120
Copper	25.0	24.6		mg/Kg		99	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.91		mg/Kg		99	80 - 120
Magnesium	1000	976		mg/Kg		98	80 - 120
Manganese	50.0	51.7		mg/Kg		103	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Potassium	1000	883		mg/Kg		88	80 - 120
Selenium	10.0	8.85		mg/Kg		88	80 - 120
Silver	5.00	4.84		mg/Kg		97	80 - 120
Sodium	1000	928		mg/Kg		93	80 - 120
Thallium	10.0	9.56		mg/Kg		96	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	49.0		mg/Kg		98	80 - 120

Lab Sample ID: 500-121504-1 MS
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366285
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	2.9	F1	25.3	9.82	F1	mg/Kg	☼	27	75 - 125
Arsenic	4.5		5.06	9.67		mg/Kg	☼	102	75 - 125
Barium	110		101	201		mg/Kg	☼	88	75 - 125
Beryllium	0.80		2.53	3.40		mg/Kg	☼	103	75 - 125
Boron	18		50.6	71.4		mg/Kg	☼	106	75 - 125
Cadmium	0.28		2.53	2.46		mg/Kg	☼	86	75 - 125
Calcium	15000	B F2	506	25700	4	mg/Kg	☼	2032	75 - 125
Chromium	10	B	10.1	21.2		mg/Kg	☼	107	75 - 125
Cobalt	5.1		25.3	25.8		mg/Kg	☼	82	75 - 125
Copper	42	F1	12.6	50.2	F1	mg/Kg	☼	65	75 - 125
Iron	24000	B	50.6	23300	4	mg/Kg	☼	-664	75 - 125
Lead	110		5.06	140	4	mg/Kg	☼	567	75 - 125
Magnesium	4600		506	6570	4	mg/Kg	☼	388	75 - 125
Manganese	360	B	25.3	406	4	mg/Kg	☼	163	75 - 125
Nickel	15		25.3	35.7		mg/Kg	☼	82	75 - 125
Potassium	930	F1	506	1700	F1	mg/Kg	☼	153	75 - 125
Selenium	1.0	F1	5.06	4.74	F1	mg/Kg	☼	73	75 - 125
Silver	<0.27		2.53	2.29		mg/Kg	☼	91	75 - 125
Sodium	1100	F1	506	1690		mg/Kg	☼	121	75 - 125
Thallium	1.3		5.06	5.29		mg/Kg	☼	79	75 - 125
Vanadium	18		25.3	47.9		mg/Kg	☼	119	75 - 125
Zinc	230		25.3	207	4	mg/Kg	☼	-100	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121504-1 MSD

Matrix: Solid

Analysis Batch: 366688

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366285

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	2.9	F1	25.2	10.5	F1	mg/Kg	☼	30	75 - 125	7	20
Arsenic	4.5		5.05	10.6		mg/Kg	☼	120	75 - 125	9	20
Barium	110		101	192		mg/Kg	☼	79	75 - 125	5	20
Beryllium	0.80		2.52	3.22		mg/Kg	☼	96	75 - 125	5	20
Boron	18		50.5	62.7		mg/Kg	☼	89	75 - 125	13	20
Cadmium	0.28		2.52	2.57		mg/Kg	☼	91	75 - 125	4	20
Calcium	15000	B F2	505	32300	4 F2	mg/Kg	☼	3353	75 - 125	23	20
Chromium	10	B	10.1	22.6		mg/Kg	☼	122	75 - 125	6	20
Cobalt	5.1		25.2	27.0		mg/Kg	☼	87	75 - 125	5	20
Copper	42	F1	12.6	53.9		mg/Kg	☼	95	75 - 125	7	20
Iron	24000	B	50.5	24100	4	mg/Kg	☼	1040	75 - 125	4	20
Lead	110		5.05	158	4	mg/Kg	☼	914	75 - 125	12	20
Magnesium	4600		505	7370	4	mg/Kg	☼	546	75 - 125	11	20
Manganese	360	B	25.2	435	4	mg/Kg	☼	280	75 - 125	7	20
Nickel	15		25.2	36.5		mg/Kg	☼	85	75 - 125	2	20
Potassium	930	F1	505	1640	F1	mg/Kg	☼	142	75 - 125	4	20
Selenium	1.0	F1	5.05	5.00		mg/Kg	☼	78	75 - 125	5	20
Silver	<0.27		2.52	2.44		mg/Kg	☼	97	75 - 125	6	20
Sodium	1100	F1	505	1760	F1	mg/Kg	☼	136	75 - 125	4	20
Thallium	1.3		5.05	5.75		mg/Kg	☼	88	75 - 125	8	20
Vanadium	18		25.2	47.6		mg/Kg	☼	118	75 - 125	1	20
Zinc	230		25.2	207	4	mg/Kg	☼	-98	75 - 125	0	20

Lab Sample ID: 500-121504-1 DU

Matrix: Solid

Analysis Batch: 366688

Client Sample ID: 1314V3-24-B11 (0-6)

Prep Type: Total/NA

Prep Batch: 366285

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	2.9	F1	2.29	F5	mg/Kg	☼	24	20
Arsenic	4.5		5.01		mg/Kg	☼	11	20
Barium	110		85.0	F3	mg/Kg	☼	27	20
Beryllium	0.80		0.749		mg/Kg	☼	7	20
Boron	18		12.1	F3	mg/Kg	☼	39	20
Cadmium	0.28		0.476	F3	mg/Kg	☼	51	20
Calcium	15000	B F2	21200	F3	mg/Kg	☼	31	20
Chromium	10	B	10.6		mg/Kg	☼	3	20
Cobalt	5.1		4.83		mg/Kg	☼	6	20
Copper	42	F1	33.1	F3	mg/Kg	☼	23	20
Iron	24000	B	18400	F3	mg/Kg	☼	25	20
Lead	110		110		mg/Kg	☼	2	20
Magnesium	4600		5810	F3	mg/Kg	☼	23	20
Manganese	360	B	385		mg/Kg	☼	5	20
Nickel	15		12.2	F3	mg/Kg	☼	21	20
Potassium	930	F1	797		mg/Kg	☼	15	20
Selenium	1.0	F1	0.913		mg/Kg	☼	13	20
Silver	<0.27		<0.28		mg/Kg	☼	NC	20
Sodium	1100	F1	1200		mg/Kg	☼	11	20
Thallium	1.3		1.29		mg/Kg	☼	1	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121504-1 DU
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366285

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Vanadium	18		19.2		mg/Kg	✖	8	20
Zinc	230		182	F3	mg/Kg	✖	24	20

Lab Sample ID: LCS 500-366297/2-A
Matrix: Solid
Analysis Batch: 366456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366297
%Rec.

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.523		mg/L		105	80 - 120
Beryllium	0.0500	0.0528		mg/L		106	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0515	^	mg/L		103	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.549		mg/L		110	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Selenium	0.100	0.0957		mg/L		96	80 - 120
Silver	0.0500	0.0518		mg/L		104	80 - 120
Zinc	0.500	0.517		mg/L		103	80 - 120

Lab Sample ID: LCS 500-366459/2-A
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366459
%Rec.

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Cadmium	0.0500	0.0463		mg/L		93	80 - 120
Lead	0.100	0.0945		mg/L		94	80 - 120
Manganese	0.500	0.487		mg/L		97	80 - 120

Lab Sample ID: LB 500-366139/1-B
Matrix: Solid
Analysis Batch: 366456

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366297

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/22/16 08:57	12/22/16 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 08:57	12/22/16 17:52	1
Boron	0.0644	J	0.50	0.050	mg/L		12/22/16 08:57	12/22/16 17:52	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		12/22/16 08:57	12/22/16 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 17:52	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 17:52	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 08:57	12/22/16 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 08:57	12/22/16 17:52	1
Manganese	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 17:52	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 08:57	12/22/16 17:52	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 08:57	12/22/16 17:52	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 08:57	12/22/16 17:52	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Lab Sample ID: 500-121504-20 MS
Matrix: Solid
Analysis Batch: 366456

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: TCLP
Prep Batch: 366297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.81		0.500	1.39		mg/L		117	50 - 150
Beryllium	<0.0040		0.0500	0.0550		mg/L		110	50 - 150
Boron	0.075	J B	1.00	1.14		mg/L		107	50 - 150
Cadmium	<0.0050	^	0.0500	0.0516	^	mg/L		103	50 - 150
Chromium	<0.025		0.200	0.216		mg/L		108	50 - 150
Cobalt	<0.025		0.500	0.505		mg/L		101	50 - 150
Iron	<0.40		1.00	1.12		mg/L		112	50 - 150
Lead	<0.0075		0.100	0.102		mg/L		102	50 - 150
Manganese	0.81		0.500	1.40		mg/L		118	50 - 150
Nickel	<0.025		0.500	0.515		mg/L		103	50 - 150
Selenium	<0.050		0.100	0.114		mg/L		114	50 - 150
Silver	<0.025		0.0500	0.0596		mg/L		119	50 - 150
Zinc	0.022	J	0.500	0.539		mg/L		103	50 - 150

Lab Sample ID: 500-121504-20 DU
Matrix: Solid
Analysis Batch: 366456

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: TCLP
Prep Batch: 366297

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.81		0.819		mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.075	J B	0.0753	J	mg/L		0.07	20
Cadmium	<0.0050	^	<0.0050	^	mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.81		0.822		mg/L		1	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.022	J	0.0225	J	mg/L		0.9	20

Lab Sample ID: LB 500-366138/1-B
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 366459

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/23/16 07:45	12/27/16 23:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/23/16 07:45	12/27/16 23:22	1
Manganese	<0.025		0.025	0.010	mg/L		12/23/16 07:45	12/27/16 23:22	1

Lab Sample ID: 500-121504-20 MS
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: SPLP East
Prep Batch: 366459

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.37		0.500	0.883		mg/L		103	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121504-20 DU
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: SPLP East
Prep Batch: 366459

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.37		0.369		mg/L		0.2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-366297/2-A
Matrix: Solid
Analysis Batch: 366502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.455		mg/L		91	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-366459/2-A
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.448		mg/L		90	80 - 120

Lab Sample ID: LB 500-366139/1-B
Matrix: Solid
Analysis Batch: 366502

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366297

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 08:57	12/22/16 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 08:57	12/22/16 15:49	1

Lab Sample ID: 500-121504-20 MS
Matrix: Solid
Analysis Batch: 366502

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: TCLP
Prep Batch: 366297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.461		mg/L		92	50 - 150
Thallium	<0.0020		0.100	0.115		mg/L		115	50 - 150

Lab Sample ID: 500-121504-20 DU
Matrix: Solid
Analysis Batch: 366502

Client Sample ID: 1314V3-18-B03 (6-12)
Prep Type: TCLP
Prep Batch: 366297

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-366138/1-B
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 366459

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/23/16 07:45	12/23/16 16:05	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-366347/12-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 10:02	1

Lab Sample ID: LCS 500-366347/13-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00215		mg/L		107	80 - 120

Lab Sample ID: LB 500-366139/1-C
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366347

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 10:05	1

Lab Sample ID: 500-121504-1 MS
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: TCLP
Prep Batch: 366347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00108		mg/L		108	50 - 150

Lab Sample ID: 500-121504-1 DU
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: TCLP
Prep Batch: 366347

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-365942/12-A
Matrix: Solid
Analysis Batch: 366132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/20/16 13:30	12/21/16 10:32	1

Lab Sample ID: LCS 500-365942/13-A
Matrix: Solid
Analysis Batch: 366132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-366137/12-A
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/21/16 14:45	12/22/16 09:35	1

Lab Sample ID: LCS 500-366137/13-A
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.158		mg/Kg		94	80 - 120

Lab Sample ID: 500-121504-1 MS
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.16	F1	0.0938	0.293	F1	mg/Kg	☼	141	75 - 125

Lab Sample ID: 500-121504-1 MSD
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.16	F1	0.0872	0.268		mg/Kg	☼	123	75 - 125	9	20

Lab Sample ID: 500-121504-1 DU
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-24-B11 (0-6)
Prep Type: Total/NA
Prep Batch: 366137

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.16	F1	0.156		mg/Kg	☼	3	20

Method: 9045D - pH

Lab Sample ID: 500-121504-11 DU
Matrix: Solid
Analysis Batch: 366411

Client Sample ID: 1314V3-18-B06 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.4		8.5		SU		1	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/27/16 23:36	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:05	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 15:56	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:06	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		JB	TAL CHI
					(Start)	12/22/16 15:18		
					(End)	12/22/16 15:21		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B11 (0-6)

Lab Sample ID: 500-121504-1

Date Collected: 12/14/16 08:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 22:08	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 02:50	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 19:17	KML	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:34	MJD	TAL CHI

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/27/16 23:43	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:12	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366502	12/22/16 16:00	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:14	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:21 (End) 12/22/16 15:25	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B11 (6-12)

Lab Sample ID: 500-121504-2

Date Collected: 12/14/16 08:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 22:34	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 18:09	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:07	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:51	MJD	TAL CHI

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/27/16 23:49	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:19	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:03	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:25 (End) 12/22/16 15:29	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B14 (0-6)

Lab Sample ID: 500-121504-3

Date Collected: 12/14/16 09:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 17:07	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 18:37	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:14	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:53	MJD	TAL CHI

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/27/16 23:56	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:26	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:06	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:29 (End) 12/22/16 15:33	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B14 (6-12)

Lab Sample ID: 500-121504-4

Date Collected: 12/14/16 09:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 23:27	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 19:04	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:20	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:56	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:03	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:32	PJ1	TAL CHI
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6020A		1	366689	12/23/16 16:12	PFK	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:10	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:21	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		JB	TAL CHI
					(Start)	12/22/16 15:33		
					(End)	12/22/16 15:37		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B12 (0-6)

Lab Sample ID: 500-121504-5

Date Collected: 12/14/16 09:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 17:34	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 19:31	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:27	KML	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366837	12/27/16 20:38	PJ1	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:58	MJD	TAL CHI

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:10	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:39	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:13	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		BJJ	TAL CHI
					(Start)	12/22/16 15:37		
					(End)	12/22/16 15:41		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B12 (6-12)

Lab Sample ID: 500-121504-6

Date Collected: 12/14/16 09:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 18:00	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 19:58	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:34	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:00	MJD	TAL CHI

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:32	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:46	PJ1	TAL CHI
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6020A		1	366689	12/23/16 16:16	PFK	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366502	12/22/16 16:17	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:41 (End) 12/22/16 15:44	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-24-B13 (0-6)

Lab Sample ID: 500-121504-7

Date Collected: 12/14/16 10:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 16:09	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 20:26	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:41	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:03	MJD	TAL CHI

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 18:53	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:20	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:44 (End) 12/22/16 15:48	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-24-B13 (6-12)

Lab Sample ID: 500-121504-8

Date Collected: 12/14/16 10:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 18:53	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 20:54	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:47	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:06	MJD	TAL CHI

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:46	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:15	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:30	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 15:48 (End) 12/22/16 15:52	JBK	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-01-B09 (0-6)

Lab Sample ID: 500-121504-9

Date Collected: 12/14/16 11:15

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 16:35	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 21:21	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 20:54	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:53	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:22	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:34	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:28	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		JB	TAL CHI
					(Start)	12/22/16 15:52		
					(End)	12/22/16 15:56		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-01-B09 (6-11.6)

Lab Sample ID: 500-121504-10

Date Collected: 12/14/16 11:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 17:01	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 21:49	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:01	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:15	MJD	TAL CHI

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 00:59	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:29	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366502	12/22/16 16:37	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 16:42 (End) 12/22/16 16:45	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B06 (0-6)

Lab Sample ID: 500-121504-11

Date Collected: 12/14/16 11:55

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 20:12	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 22:16	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:24	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:17	MJD	TAL CHI

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:06	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:36	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366566	12/23/16 12:49	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:41	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:31	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	366411	12/22/16 16:49 (Start) 12/22/16 16:53 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B06 (6-12)

Lab Sample ID: 500-121504-12

Date Collected: 12/14/16 12:05

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 20:38	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 22:44	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:30	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:19	MJD	TAL CHI

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:13	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:42	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:44	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	12/22/16 16:53 (Start) 12/22/16 16:57 (End)	JBJ	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B06 (12-17)

Lab Sample ID: 500-121504-13

Date Collected: 12/14/16 12:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 21:04	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 23:11	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:37	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:22	MJD	TAL CHI

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:20	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:49	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:48	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 16:57 (End) 12/22/16 17:01	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 21:30	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/27/16 23:38	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:44	KML	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366837	12/27/16 20:42	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (0-6)

Lab Sample ID: 500-121504-14

Date Collected: 12/14/16 12:40

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:24	MJD	TAL CHI

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:26	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 19:56	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:51	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 17:01 (End) 12/22/16 17:04	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B01 (6-12)

Lab Sample ID: 500-121504-15

Date Collected: 12/14/16 12:50

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 21:56	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 00:06	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:51	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:27	MJD	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:33	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 20:03	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 16:54	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		JB	TAL CHI
					(Start)	12/22/16 17:04		
					(End)	12/22/16 17:08		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B01 (12-18)

Lab Sample ID: 500-121504-16

Date Collected: 12/14/16 13:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 17:28	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 00:33	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 21:57	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:29	MJD	TAL CHI

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 01:56	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 20:09	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366502	12/22/16 16:58	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 17:08 (End) 12/22/16 17:12	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B05 (0-8)

Lab Sample ID: 500-121504-17

Date Collected: 12/14/16 13:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 17:54	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 01:00	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 22:04	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:31	MJD	TAL CHI

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 02:02	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 20:16	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 17:01	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 17:12 (End) 12/22/16 17:16	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B05 (8-12)

Lab Sample ID: 500-121504-18

Date Collected: 12/14/16 13:45

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365926	12/20/16 23:14	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 01:28	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 22:11	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:34	MJD	TAL CHI

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 02:09	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 20:39	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 17:12	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:45	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411	(Start) 12/22/16 17:16 (End) 12/22/16 17:20	JB	TAL CHI
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B03 (0-6)

Lab Sample ID: 500-121504-19

Date Collected: 12/14/16 14:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 18:20	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 01:55	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 22:18	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:36	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366138	12/21/16 13:00	RMP	TAL CHI
SPLP East	Prep	3010A			366459	12/23/16 07:45	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 02:16	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6010B		1	366456	12/22/16 20:46	PJ1	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366297	12/22/16 08:57	JEF	TAL CHI
TCLP	Analysis	6020A		1	366502	12/22/16 17:15	FXG	TAL CHI
TCLP	Leach	1311			366139	12/21/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366347	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 10:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366411		JB	TAL CHI
					(Start)	12/22/16 17:20		
					(End)	12/22/16 17:24		
Total/NA	Analysis	Moisture		1	365831	12/19/16 16:51	LWN	TAL CHI

Client Sample ID: 1314V3-18-B03 (6-12)

Lab Sample ID: 500-121504-20

Date Collected: 12/14/16 14:30

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365399	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366116	12/21/16 18:46	EMA	TAL CHI
Total/NA	Prep	3541			366449	12/23/16 07:12	STW	TAL CHI
Total/NA	Analysis	8270D		1	366771	12/28/16 02:22	GES	TAL CHI
Total/NA	Prep	3050B			366285	12/22/16 08:28	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 22:24	KML	TAL CHI
Total/NA	Prep	7471B			365942	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 11:44	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121504-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6041
Phone: 708.534.5200 Fax: 708.534.5



500-121504 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121504
Chain of Custody Number: EBV-27
Page _____ of 2
Temperature °C of Cooler: 5.0, 3.1

Client		Client Project #		Preservative		Parameter					Preservative Key	
Project Name		Lab Project #		Matrix								
Project Location/State		Lab Project #		# of Containers							Comments	
Sampler		Lab PM		Matrix								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
1		1314V3-24-B11 (0-6)	12-14-16	0835	2	S	VOC	SVOC	Total TAC Metals	TCU/SPM TAC Metals	PH/% Solids	6408
2		1314V3-24-B11 (6-12)	12-14-16	0840	2	S	X	X	X	X	X	
3		1314V3-24-B14 (0-6)	12-14-16	0910	2	S	X	X	X	X	X	
4		1314V3-24-B14 (6-12)	12-14-16	0915	2	S	X	X	X	X	X	
5		1314V3-24-B14 (0-6)	12-14-16	0935	2	S	X	X	X	X	X	
6		1314V3-24-B14 (6-12)	12-14-16	0940	2	S	X	X	X	X	X	
7		1314V3-24-B13 (0-6)	12-14-16	1005	2	S	X	X	X	X	X	
8		1314V3-24-B13 (6-12)	12-14-16	1010	2	S	X	X	X	X	X	
12-14-16												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>S</u>	Company <u>EE</u>	Date <u>12-14-16</u>	Time <u>1730</u>	Received By <u>Ann Scott TA-CHE</u>	Company <u>TA-CHE</u>	Date <u>12/15/16</u>	Time <u>1000</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier _____

Shipped FedEx

Hand Delivered _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121504
Chain of Custody Number: EGM-38
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key		
Project Name		Lab Project #		Parameter		Parameter										1. HCL, Cool to 4°		
Project Location/State		Lab Project #		Parameter		Parameter										2. H2SO4, Cool to 4°		
Sampler		Lab PM		Parameter		Parameter										3. HNO3, Cool to 4°		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix											4. NaOH, Cool to 4°	
EE		1009008-0046-01																5. NaOH/Zn, Cool to 4°
ITM		50012744																6. NaHSO4
Rock Island County, IL		V. Wright																7. Cool to 4°
S. Cooper																		8. None
																		9. Other
9		1314V3-01-309(6-6)	12-14-16	1115	2 S	S	X	X	X	X	X	X	X	X	X	X		Comments
10		1314V3-01-309(6-11.6)	12-14-16	1125	2 S	S	X	X	X	X	X	X	X	X	X	X		64008
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>3 12-14-16</p> </div>																		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>EE</u>	Company: <u>EE</u>	Date: <u>12-14-16</u>	Time: <u>1730</u>	Received By: <u>Shirley</u>	Company: <u>DA-CHE</u>	Date: <u>12/15/16</u>	Time: <u>1000</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121504
 Chain of Custody Number: 884639
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key	
EE		1009008-004601																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		Matrix												Comments	
I 74		40012744		Date Time		# of Containers Matrix													
Project Location/State		Lab Project #																	
Rock Island County, IL		40012744																	
Sampler		Lab #																	
S. Cooper		D. Wright																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
11		1314V3-18-B06 (0-6)	12-14-16	1155	2	S	VOL												
12		1314V3-18-B06 (6-12)	12-14-16	1205	2	S	SVOL												
13		1314V3-18-B06 (12-17)	12-14-16	1210	2	S	Total TAC												
14		1314V3-18-B01 (0-6)	12-14-16	1240	2	S	metals												
15		1314V3-18-B01 (6-12)	12-14-16	1250	2	S	TCU/SPR												
16		1314V3-18-B01 (12-16)	12-14-16	1300	2	S	TAC												
17		1314V3-18-B05 (0-8)	12-14-16	1335	2	S	PT/40 Solid												
18		1314V3-18-B05 (8-12)	12-14-16	1345	2	S													
19		1314V3-18-B03 (0-6)	12-14-16	1425	2	S													
20		1314V3-18-B03 (6-12)	12-14-16	1430	2	S													

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>EE</u>	Company: <u>EE</u>	Date: <u>12-14-16</u>	Time: <u>1130</u>	Received By: <u>Sherrill Scotts DA-CPE</u>	Company: <u>DA-CPE</u>	Date: <u>12/15/16</u>	Time: <u>1000</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
 Shipped: Fed-X
 Hand Delivered: _____

Matrix Key WW - Wastewater W - Water S - Soil SL - Sludge MS - Miscellaneous OL - Oil A - Air SE - Sediment SO - Soil L - Leachate WI - Wipe DW - Drinking Water O - Other	Client Comments:	Lab Comments:
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Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121504-1

Login Number: 121504

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121505-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/28/2016 4:56:24 PM

Richard Wright, Senior Project Manager
(708)534-5200
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Job ID: 500-121505-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-121505-1

Comments

No additional comments.

Receipt

The samples were received on 12/15/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method(s) 8260B: One surrogate recovery for the following sample was outside the upper control limit: 1314V3-18-B09 (0-8) (500-121505-7). The sample was re-analyzed with similar results. The best analysis has been reported. This sample did not contain any target analytes.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: (500-121505-E-1-N MS) and (500-121505-E-1-O MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121505-E-1-N MS) and (500-121505-E-1-O MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.012	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0096	J F1	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0059	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J F1	0.95	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.0		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.47	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		9.5	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		9.5	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	9.1		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8100		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.47	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	780	F1	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J F1	0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.98		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0078	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0093	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.52	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	2.6		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D (Continued)

Lab Sample ID: 500-121505-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	6.5		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8600		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	810		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.92		0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0063	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0087	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0067	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.092		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.089		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.094		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.047		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.053		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	0.99	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.49	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	4.8		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.076	J	0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	4500		9.9	3.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13) (Continued)

Lab Sample ID: 500-121505-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	1700		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	900		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	94		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.074		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0070	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.026	J	0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.020	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	0.97	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.5		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	6.4		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		97	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	13	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		9.7	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.49	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		49	6.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.95		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8) (Continued)

Lab Sample ID: 500-121505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.041	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.016	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.045		0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0084		0.0046	0.0020	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.036	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.060	J	0.076	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0068	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0086	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0070	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.022	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.20		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.090		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.051		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.094		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.045		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.60	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5200		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	220		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	370		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B04 (0-5.3) (Continued)

Lab Sample ID: 500-121505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.058		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.051		0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.011		0.0043	0.0019	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.033	J	0.036	0.0055	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.066	J	0.072	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0071	J	0.036	0.0047	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.012	J	0.036	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.041		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.072		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.054		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	0.29		0.18	0.060	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	17		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	6700		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.3	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.3		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	7.8		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	9.2		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	110		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.6		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	410		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4) (Continued)

Lab Sample ID: 500-121505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	340		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.7		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.34	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.092		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0085	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.019	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0093	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Arsenic	220		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	8.9		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	140		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	20		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.6	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	120		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		2.7	1.4	mg/Kg	10	☼	6010B	Total/NA
Magnesium	1300		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.9		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	340		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	33		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	33	J	55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	300		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8) (Continued)

Lab Sample ID: 500-121505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.018	0.0095	mg/Kg	1	*	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121505-1	1314V3-18-B02 (0-7)	Solid	12/14/16 15:00	12/15/16 10:00
500-121505-2	1314V3-18-B02 (0-7)D	Solid	12/14/16 15:00	12/15/16 10:00
500-121505-3	1314V3-18-B02 (7-13)	Solid	12/14/16 15:10	12/15/16 10:00
500-121505-4	1314V3-18-B07 (0-8)	Solid	12/14/16 15:35	12/15/16 10:00
500-121505-5	1314V3-18-B04 (0-5.3)	Solid	12/14/16 16:10	12/15/16 10:00
500-121505-6	1314V3-18-B08 (0-4.4)	Solid	12/14/16 16:25	12/15/16 10:00
500-121505-7	1314V3-18-B09 (0-8)	Solid	12/14/16 17:00	12/15/16 10:00

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/15/16 16:33	12/19/16 19:05	1
Dibromofluoromethane	117		75 - 120	12/15/16 16:33	12/19/16 19:05	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134	12/15/16 16:33	12/19/16 19:05	1
Toluene-d8 (Surr)	105		75 - 123	12/15/16 16:33	12/19/16 19:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,6-Dinitrotoluene	<0.19	F1	0.19	0.074	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2-Nitrophenol	<0.38	F1	0.38	0.089	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.67	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
2,4-Dinitrotoluene	<0.19	F1	0.19	0.060	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Pentachlorophenol	<0.76	F2	0.76	0.61	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
4,6-Dinitro-2-methylphenol	<0.76	F1	0.76	0.30	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Fluoranthene	0.012	J	0.038	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Pyrene	0.0096	J F1	0.038	0.0075	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Benzo[a]anthracene	0.0059	J	0.038	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Benzo[b]fluoranthene	0.011	J	0.038	0.0082	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Dibenz(a,h)anthracene	<0.038	F1	0.038	0.0073	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 17:58	12/27/16 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		40 - 130	12/23/16 17:58	12/27/16 11:04	1
Phenol-d5	85		36 - 123	12/23/16 17:58	12/27/16 11:04	1
Nitrobenzene-d5	79		33 - 124	12/23/16 17:58	12/27/16 11:04	1
2-Fluorobiphenyl	77		42 - 115	12/23/16 17:58	12/27/16 11:04	1
2,4,6-Tribromophenol	81		25 - 130	12/23/16 17:58	12/27/16 11:04	1
Terphenyl-d14	91		25 - 150	12/23/16 17:58	12/27/16 11:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J F1	0.95	0.20	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Arsenic	4.0		0.47	0.22	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Barium	78		0.47	0.087	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Beryllium	0.59		0.19	0.041	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Boron	2.5		2.4	0.33	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Cadmium	<0.095		0.095	0.027	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Calcium	14000		9.5	3.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Chromium	15	B	0.47	0.081	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Cobalt	5.8		0.24	0.053	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Copper	12		0.47	0.10	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Iron	15000		9.5	3.6	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Lead	9.1		0.24	0.12	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Magnesium	8100		4.7	1.9	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Manganese	290		0.47	0.094	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Nickel	14		0.47	0.13	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Potassium	780	F1	24	3.9	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Selenium	0.46	J F1	0.47	0.23	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Sodium	100		47	6.2	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Thallium	0.98		0.47	0.23	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Vanadium	26		0.24	0.069	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1
Zinc	32		0.95	0.30	mg/Kg	☼	12/21/16 08:13	12/23/16 23:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:19	1
Boron	0.054	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Manganese	0.66		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:19	1
Zinc	0.035	J	0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 12:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0093	mg/Kg	☼	12/20/16 13:30	12/21/16 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/21/16 13:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/15/16 16:33	12/19/16 19:31	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/19/16 19:31	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 134	12/15/16 16:33	12/19/16 19:31	1
Toluene-d8 (Surr)	107		75 - 123	12/15/16 16:33	12/19/16 19:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Phenanthrene	0.0078	J	0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Fluoranthene	0.020	J	0.036	0.0068	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Pyrene	0.017	J	0.036	0.0072	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Benzo[a]anthracene	0.0093	J	0.036	0.0049	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.036	0.0099	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Benzo[b]fluoranthene	0.016	J	0.036	0.0079	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Benzo[a]pyrene	0.011	J	0.036	0.0071	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		40 - 130				12/23/16 17:58	12/27/16 11:32	1
Phenol-d5	74		36 - 123				12/23/16 17:58	12/27/16 11:32	1
Nitrobenzene-d5	68		33 - 124				12/23/16 17:58	12/27/16 11:32	1
2-Fluorobiphenyl	69		42 - 115				12/23/16 17:58	12/27/16 11:32	1
2,4,6-Tribromophenol	83		25 - 130				12/23/16 17:58	12/27/16 11:32	1
Terphenyl-d14	90		25 - 150				12/23/16 17:58	12/27/16 11:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.0	0.21	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Arsenic	4.6		0.52	0.24	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Barium	71		0.52	0.094	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Beryllium	0.59		0.21	0.045	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Boron	2.6		2.6	0.36	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Calcium	15000		10	3.3	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Chromium	15	B	0.52	0.089	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Cobalt	6.5		0.26	0.058	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Copper	13		0.52	0.11	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Iron	16000		10	4.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Lead	10		0.26	0.13	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Magnesium	8600		5.2	2.1	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Manganese	310		0.52	0.10	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Nickel	15		0.52	0.14	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Potassium	810		26	4.2	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Selenium	0.50	J	0.52	0.26	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Sodium	110		52	6.8	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Thallium	0.92		0.52	0.25	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Vanadium	26		0.26	0.075	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1
Zinc	36		1.0	0.33	mg/Kg	☼	12/21/16 08:13	12/23/16 23:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:23	1
Boron	0.062	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Manganese	0.55		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:23	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0092	mg/Kg	☼	12/20/16 13:30	12/21/16 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		12/21/16 13:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	12/15/16 16:33	12/19/16 19:57	1
Dibromofluoromethane	118		75 - 120	12/15/16 16:33	12/19/16 19:57	1
1,2-Dichloroethane-d4 (Surr)	121		69 - 134	12/15/16 16:33	12/19/16 19:57	1
Toluene-d8 (Surr)	106		75 - 123	12/15/16 16:33	12/19/16 19:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Naphthalene	0.0063	J	0.038	0.0059	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Acenaphthylene	0.0087	J	0.038	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Phenanthrene	0.026	J	0.038	0.0054	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Anthracene	0.0067	J	0.038	0.0064	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Fluoranthene	0.15		0.038	0.0072	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Pyrene	0.15		0.038	0.0077	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Benzo[a]anthracene	0.092		0.038	0.0052	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.089		0.038	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Benzo[b]fluoranthene	0.12		0.038	0.0083	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Benzo[a]pyrene	0.094		0.038	0.0075	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Indeno[1,2,3-cd]pyrene	0.047		0.038	0.010	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Dibenz(a,h)anthracene	0.013	J	0.038	0.0075	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
Benzo[g,h,i]perylene	0.053		0.038	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 17:58	12/27/16 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		40 - 130	12/23/16 17:58	12/27/16 12:00	1
Phenol-d5	75		36 - 123	12/23/16 17:58	12/27/16 12:00	1
Nitrobenzene-d5	67		33 - 124	12/23/16 17:58	12/27/16 12:00	1
2-Fluorobiphenyl	68		42 - 115	12/23/16 17:58	12/27/16 12:00	1
2,4,6-Tribromophenol	67		25 - 130	12/23/16 17:58	12/27/16 12:00	1
Terphenyl-d14	81		25 - 150	12/23/16 17:58	12/27/16 12:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	0.99	0.21	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Arsenic	5.8		0.49	0.23	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Barium	64		0.49	0.091	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Beryllium	0.63		0.20	0.043	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Boron	4.8		2.5	0.35	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Cadmium	0.076	J	0.099	0.029	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Calcium	4500		9.9	3.2	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Chromium	14	B	0.49	0.085	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Cobalt	6.6		0.25	0.056	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Copper	14		0.49	0.11	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Iron	15000		9.9	3.8	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Lead	19		0.25	0.12	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Magnesium	1700		4.9	2.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Manganese	390		0.49	0.098	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Nickel	15		0.49	0.13	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Potassium	900		25	4.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Selenium	0.57		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Sodium	94		49	6.5	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Thallium	1.0		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Vanadium	24		0.25	0.072	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1
Zinc	56		0.99	0.31	mg/Kg	☼	12/21/16 08:13	12/23/16 23:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:28	1
Boron	0.12	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Manganese	0.26		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:28	1
Zinc	0.14	J	0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.074		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.018	0.0094	mg/Kg	☼	12/20/16 13:30	12/21/16 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/21/16 13:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,1,1,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/15/16 16:33	12/19/16 20:24	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/19/16 20:24	1
1,2-Dichloroethane-d4 (Surr)	126		69 - 134	12/15/16 16:33	12/19/16 20:24	1
Toluene-d8 (Surr)	108		75 - 123	12/15/16 16:33	12/19/16 20:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Methylnaphthalene	0.0070	J	0.074	0.0067	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Phenanthrene	0.031	J	0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Fluoranthene	0.035	J	0.036	0.0068	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Pyrene	0.035	J	0.036	0.0073	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Benzo[a]anthracene	0.018	J	0.036	0.0049	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.036	0.010	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Benzo[b]fluoranthene	0.026	J	0.036	0.0079	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Benzo[a]pyrene	0.020	J	0.036	0.0071	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		40 - 130	12/23/16 17:58	12/27/16 14:47	1
Phenol-d5	84		36 - 123	12/23/16 17:58	12/27/16 14:47	1
Nitrobenzene-d5	76		33 - 124	12/23/16 17:58	12/27/16 14:47	1
2-Fluorobiphenyl	77		42 - 115	12/23/16 17:58	12/27/16 14:47	1
2,4,6-Tribromophenol	48		25 - 130	12/23/16 17:58	12/27/16 14:47	1
Terphenyl-d14	95		25 - 150	12/23/16 17:58	12/27/16 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	0.97	0.20	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Arsenic	3.5		0.49	0.23	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Barium	48		0.49	0.089	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Beryllium	0.52		0.19	0.042	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Boron	6.4		2.4	0.34	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Cadmium	<0.097		0.097	0.028	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Calcium	110000		97	31	mg/Kg	☼	12/21/16 08:13	12/27/16 20:46	10
Chromium	13	B	0.49	0.084	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Cobalt	4.4		0.24	0.055	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Copper	12		0.49	0.11	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Iron	12000		9.7	3.8	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Lead	16		0.24	0.12	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Magnesium	30000		4.9	2.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Manganese	320		0.49	0.096	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Nickel	11		0.49	0.13	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Potassium	1000		24	4.0	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Sodium	480		49	6.4	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Thallium	0.95		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Vanadium	19		0.24	0.071	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1
Zinc	24		0.97	0.31	mg/Kg	☼	12/21/16 08:13	12/23/16 23:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:33	1
Boron	0.082	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Cobalt	0.012	J	0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Manganese	2.9		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Nickel	0.026		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:33	1
Zinc	0.041	J	0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 12:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0096	mg/Kg	☼	12/20/16 13:30	12/21/16 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU	-		12/21/16 14:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.045		0.018	0.0080	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
2-Butanone (MEK)	0.0084		0.0046	0.0020	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 120	12/15/16 16:33	12/19/16 20:50	1
Dibromofluoromethane	116		75 - 120	12/15/16 16:33	12/19/16 20:50	1
1,2-Dichloroethane-d4 (Surr)	122		69 - 134	12/15/16 16:33	12/19/16 20:50	1
Toluene-d8 (Surr)	120		75 - 123	12/15/16 16:33	12/19/16 20:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Naphthalene	0.036	J	0.038	0.0058	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Methylnaphthalene	0.060	J	0.076	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Acenaphthylene	0.0068	J	0.038	0.0050	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Acenaphthene	0.0086	J	0.038	0.0068	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Fluorene	0.0070	J	0.038	0.0053	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Phenanthrene	0.16		0.038	0.0053	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Anthracene	0.022	J	0.038	0.0063	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Fluoranthene	0.20		0.038	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Pyrene	0.18		0.038	0.0075	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Benzo[a]anthracene	0.090		0.038	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.038	0.010	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Benzo[b]fluoranthene	0.15		0.038	0.0082	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Benzo[k]fluoranthene	0.051		0.038	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Benzo[a]pyrene	0.094		0.038	0.0073	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.0098	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Dibenz(a,h)anthracene	0.013	J	0.038	0.0073	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
Benzo[g,h,i]perylene	0.045		0.038	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 17:58	12/27/16 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130	12/23/16 17:58	12/27/16 15:15	1
Phenol-d5	80		36 - 123	12/23/16 17:58	12/27/16 15:15	1
Nitrobenzene-d5	76		33 - 124	12/23/16 17:58	12/27/16 15:15	1
2-Fluorobiphenyl	76		42 - 115	12/23/16 17:58	12/27/16 15:15	1
2,4,6-Tribromophenol	78		25 - 130	12/23/16 17:58	12/27/16 15:15	1
Terphenyl-d14	90		25 - 150	12/23/16 17:58	12/27/16 15:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Arsenic	5.3		0.53	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Barium	38		0.53	0.097	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Beryllium	0.40		0.21	0.046	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Boron	4.0		2.7	0.37	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Cadmium	0.13		0.11	0.031	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Calcium	18000		11	3.4	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Chromium	12	B	0.53	0.091	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Cobalt	4.8		0.27	0.060	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Copper	11		0.53	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Iron	12000		11	4.1	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Lead	17		0.27	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Magnesium	5200		5.3	2.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Manganese	220		0.53	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Nickel	13		0.53	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Potassium	550		27	4.3	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Selenium	0.53		0.53	0.26	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Sodium	370		53	7.0	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Thallium	0.71		0.53	0.26	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Vanadium	18		0.27	0.078	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1
Zinc	62		1.1	0.34	mg/Kg	☼	12/21/16 08:13	12/24/16 00:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:45	1
Boron	0.067	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 85.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0033	J	0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 16:13	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Manganese	2.4		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Nickel	0.020	J	0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:45	1
Zinc	0.10	J	0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:53	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 13:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 13:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.018	0.0097	mg/Kg	☼	12/20/16 13:30	12/21/16 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/21/16 14:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.051		0.017	0.0075	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
2-Butanone (MEK)	0.011		0.0043	0.0019	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/15/16 16:33	12/19/16 21:16	1
Dibromofluoromethane	115		75 - 120	12/15/16 16:33	12/19/16 21:16	1
1,2-Dichloroethane-d4 (Surr)	125		69 - 134	12/15/16 16:33	12/19/16 21:16	1
Toluene-d8 (Surr)	110		75 - 123	12/15/16 16:33	12/19/16 21:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Naphthalene	0.033	J	0.036	0.0055	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Methylnaphthalene	0.066	J	0.072	0.0066	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Acenaphthylene	0.0071	J	0.036	0.0047	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Acenaphthene	0.012	J	0.036	0.0064	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Fluorene	0.013	J	0.036	0.0050	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Phenanthrene	0.22		0.036	0.0050	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Anthracene	0.041		0.036	0.0060	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Fluoranthene	0.30		0.036	0.0066	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Pyrene	0.25		0.036	0.0071	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Benzo[a]anthracene	0.13		0.036	0.0048	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.15		0.036	0.0098	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Benzo[b]fluoranthene	0.22		0.036	0.0077	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Benzo[k]fluoranthene	0.072		0.036	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Benzo[a]pyrene	0.13		0.036	0.0069	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Indeno[1,2,3-cd]pyrene	0.051		0.036	0.0093	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Dibenz(a,h)anthracene	0.015	J	0.036	0.0069	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
Benzo[g,h,i]perylene	0.054		0.036	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1
3 & 4 Methylphenol	0.29		0.18	0.060	mg/Kg	☼	12/23/16 17:58	12/27/16 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		40 - 130	12/23/16 17:58	12/27/16 15:42	1
Phenol-d5	79		36 - 123	12/23/16 17:58	12/27/16 15:42	1
Nitrobenzene-d5	69		33 - 124	12/23/16 17:58	12/27/16 15:42	1
2-Fluorobiphenyl	70		42 - 115	12/23/16 17:58	12/27/16 15:42	1
2,4,6-Tribromophenol	89		25 - 130	12/23/16 17:58	12/27/16 15:42	1
Terphenyl-d14	94		25 - 150	12/23/16 17:58	12/27/16 15:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.0	0.21	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Arsenic	2.3		0.51	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Barium	40		0.51	0.094	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Beryllium	0.77		0.20	0.044	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Boron	17		2.6	0.36	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Cadmium	0.11		0.10	0.030	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Calcium	6700		10	3.3	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Chromium	7.3	B	0.51	0.088	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Cobalt	2.3		0.26	0.058	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Copper	7.8		0.51	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Iron	11000		10	3.9	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Lead	9.2		0.26	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Magnesium	1000		5.1	2.1	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Manganese	110		0.51	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Nickel	6.6		0.51	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Potassium	410		26	4.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Selenium	0.58		0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Sodium	340		51	6.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Thallium	0.30	J	0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Vanadium	9.7		0.26	0.075	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1
Zinc	71		1.0	0.32	mg/Kg	☼	12/21/16 08:13	12/24/16 00:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:50	1
Boron	0.10	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 16:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0048	J	0.0050	0.0020	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 16:17	1
Cobalt	0.031		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Lead	0.012		0.0075	0.0075	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Manganese	4.7		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Nickel	0.040		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:46	12/23/16 12:50	1
Zinc	0.34	J	0.50	0.020	mg/L	-	12/22/16 13:46	12/23/16 12:50	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.092		0.0075	0.0075	mg/L	-	12/22/16 14:01	12/24/16 04:59	1
Manganese	0.65		0.025	0.010	mg/L	-	12/22/16 14:01	12/24/16 04:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:46	12/23/16 13:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:46	12/23/16 13:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0092	mg/Kg	☼	12/20/16 13:30	12/21/16 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/21/16 14:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/15/16 16:33	12/19/16 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	12/15/16 16:33	12/19/16 21:42	1
Dibromofluoromethane	122	X	75 - 120	12/15/16 16:33	12/19/16 21:42	1
1,2-Dichloroethane-d4 (Surr)	124		69 - 134	12/15/16 16:33	12/19/16 21:42	1
Toluene-d8 (Surr)	107		75 - 123	12/15/16 16:33	12/19/16 21:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Methylnaphthalene	0.0085	J	0.073	0.0067	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Phenanthrene	0.019	J	0.036	0.0051	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Fluoranthene	0.021	J	0.036	0.0067	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Pyrene	0.019	J	0.036	0.0072	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Benzo[a]anthracene	0.011	J	0.036	0.0049	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.036	0.0099	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Benzo[a]pyrene	0.0093	J	0.036	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/23/16 17:58	12/27/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/23/16 17:58	12/27/16 12:28	1
Phenol-d5	80		36 - 123	12/23/16 17:58	12/27/16 12:28	1
Nitrobenzene-d5	71		33 - 124	12/23/16 17:58	12/27/16 12:28	1
2-Fluorobiphenyl	73		42 - 115	12/23/16 17:58	12/27/16 12:28	1
2,4,6-Tribromophenol	77		25 - 130	12/23/16 17:58	12/27/16 12:28	1
Terphenyl-d14	93		25 - 150	12/23/16 17:58	12/27/16 12:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Arsenic	220		0.55	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Barium	60		0.55	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Beryllium	8.9		0.22	0.047	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Boron	140		2.7	0.38	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Cadmium	20		0.11	0.032	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Calcium	2300		11	3.5	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Chromium	8.6	B	0.55	0.094	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Cobalt	4.1		0.27	0.062	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Copper	120		0.55	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Iron	20000		11	4.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Lead	13		2.7	1.4	mg/Kg	☼	12/21/16 08:13	12/27/16 20:50	10
Magnesium	1300		5.5	2.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Manganese	350		0.55	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Nickel	8.9		0.55	0.15	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Potassium	340		27	4.5	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Selenium	33		0.55	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Sodium	33	J	55	7.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Thallium	300		0.55	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Vanadium	15		0.27	0.080	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1
Zinc	78		1.1	0.35	mg/Kg	☼	12/21/16 08:13	12/24/16 00:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 12:55	1
Boron	0.062	J	0.50	0.050	mg/L		12/22/16 13:46	12/23/16 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:46	12/23/16 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 16:21	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 12:55	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:46	12/23/16 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 12:55	1
Manganese	1.0		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 12:55	1
Nickel	0.015	J	0.025	0.010	mg/L		12/22/16 13:46	12/23/16 12:55	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:46	12/23/16 12:55	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 12:55	1
Zinc	0.12	J	0.50	0.020	mg/L		12/22/16 13:46	12/23/16 12:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.83		0.025	0.010	mg/L		12/22/16 14:01	12/24/16 05:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:46	12/23/16 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:46	12/23/16 13:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0095	mg/Kg	☼	12/20/16 13:30	12/21/16 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			12/21/16 14:19	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

GC/MS VOA

Prep Batch: 365408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	5035	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	5035	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	5035	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	5035	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	5035	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	5035	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 365775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	8260B	365408
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	8260B	365408
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	8260B	365408
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	8260B	365408
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	8260B	365408
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	8260B	365408
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	8260B	365408
MB 500-365775/28	Method Blank	Total/NA	Solid	8260B	
LCS 500-365775/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365775/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 366599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	3541	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	3541	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	3541	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	3541	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	3541	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	3541	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	3541	
500-121505-1 MS	1314V3-18-B02 (0-7)	Total/NA	Solid	3541	
500-121505-1 MSD	1314V3-18-B02 (0-7)	Total/NA	Solid	3541	

Analysis Batch: 366660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	8270D	366599
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	8270D	366599
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	8270D	366599
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	8270D	366599
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	8270D	366599
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	8270D	366599
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	8270D	366599
500-121505-1 MS	1314V3-18-B02 (0-7)	Total/NA	Solid	8270D	366599
500-121505-1 MSD	1314V3-18-B02 (0-7)	Total/NA	Solid	8270D	366599

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Metals

Prep Batch: 365938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	7471B	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	7471B	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	7471B	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	7471B	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	7471B	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	7471B	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	7471B	
MB 500-365938/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-365938/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 366081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	3050B	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	3050B	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	3050B	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	3050B	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	3050B	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	3050B	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	3050B	
MB 500-366081/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-366081/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121505-1 MS	1314V3-18-B02 (0-7)	Total/NA	Solid	3050B	
500-121505-1 MSD	1314V3-18-B02 (0-7)	Total/NA	Solid	3050B	
500-121505-1 DU	1314V3-18-B02 (0-7)	Total/NA	Solid	3050B	

Analysis Batch: 366132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	7471B	365938
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	7471B	365938
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	7471B	365938
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	7471B	365938
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	7471B	365938
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	7471B	365938
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	7471B	365938
MB 500-365938/12-A	Method Blank	Total/NA	Solid	7471B	365938
LCS 500-365938/13-A	Lab Control Sample	Total/NA	Solid	7471B	365938

Leach Batch: 366174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	SPLP East	Solid	1312	
500-121505-2	1314V3-18-B02 (0-7)D	SPLP East	Solid	1312	
500-121505-3	1314V3-18-B02 (7-13)	SPLP East	Solid	1312	
500-121505-4	1314V3-18-B07 (0-8)	SPLP East	Solid	1312	
500-121505-5	1314V3-18-B04 (0-5.3)	SPLP East	Solid	1312	
500-121505-6	1314V3-18-B08 (0-4.4)	SPLP East	Solid	1312	
500-121505-7	1314V3-18-B09 (0-8)	SPLP East	Solid	1312	
LB 500-366174/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 366175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Metals (Continued)

Leach Batch: 366175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	1311	
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	1311	
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	1311	
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	1311	
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	1311	
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	1311	
LB 500-366175/1-B	Method Blank	TCLP	Solid	1311	
LB 500-366175/1-C	Method Blank	TCLP	Solid	1311	
500-121505-1 MS	1314V3-18-B02 (0-7)	TCLP	Solid	1311	
500-121505-1 DU	1314V3-18-B02 (0-7)	TCLP	Solid	1311	

Prep Batch: 366348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366175
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	7470A	366175
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	7470A	366175
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	7470A	366175
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	7470A	366175
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	7470A	366175
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	7470A	366175
LB 500-366175/1-B	Method Blank	TCLP	Solid	7470A	366175
MB 500-366348/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-366348/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121505-1 MS	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366175
500-121505-1 DU	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366175

Prep Batch: 366367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	3010A	366175
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	3010A	366175
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	3010A	366175
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	3010A	366175
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	3010A	366175
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	3010A	366175
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	3010A	366175
LB 500-366175/1-C	Method Blank	TCLP	Solid	3010A	366175
LCS 500-366367/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 366373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	SPLP East	Solid	3010A	366174
500-121505-2	1314V3-18-B02 (0-7)D	SPLP East	Solid	3010A	366174
500-121505-3	1314V3-18-B02 (7-13)	SPLP East	Solid	3010A	366174
500-121505-4	1314V3-18-B07 (0-8)	SPLP East	Solid	3010A	366174
500-121505-5	1314V3-18-B04 (0-5.3)	SPLP East	Solid	3010A	366174
500-121505-6	1314V3-18-B08 (0-4.4)	SPLP East	Solid	3010A	366174
500-121505-7	1314V3-18-B09 (0-8)	SPLP East	Solid	3010A	366174
LB 500-366174/1-B	Method Blank	SPLP East	Solid	3010A	366174
LCS 500-366373/2-A	Lab Control Sample	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Metals (Continued)

Analysis Batch: 366539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366348
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	7470A	366348
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	7470A	366348
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	7470A	366348
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	7470A	366348
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	7470A	366348
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	7470A	366348
LB 500-366175/1-B	Method Blank	TCLP	Solid	7470A	366348
MB 500-366348/12-A	Method Blank	Total/NA	Solid	7470A	366348
LCS 500-366348/13-A	Lab Control Sample	Total/NA	Solid	7470A	366348
500-121505-1 MS	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366348
500-121505-1 DU	1314V3-18-B02 (0-7)	TCLP	Solid	7470A	366348

Analysis Batch: 366563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	6010B	366367
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	6010B	366367
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	6010B	366367
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	6010B	366367
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	6010B	366367
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	6010B	366367
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	6010B	366367
LB 500-366175/1-C	Method Blank	TCLP	Solid	6010B	366367
LCS 500-366367/2-A	Lab Control Sample	Total/NA	Solid	6010B	366367

Analysis Batch: 366688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	SPLP East	Solid	6010B	366373
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	6010B	366081
500-121505-2	1314V3-18-B02 (0-7)D	SPLP East	Solid	6010B	366373
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	6010B	366081
500-121505-3	1314V3-18-B02 (7-13)	SPLP East	Solid	6010B	366373
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	6010B	366081
500-121505-4	1314V3-18-B07 (0-8)	SPLP East	Solid	6010B	366373
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	6010B	366081
500-121505-5	1314V3-18-B04 (0-5.3)	SPLP East	Solid	6010B	366373
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	6010B	366081
500-121505-6	1314V3-18-B08 (0-4.4)	SPLP East	Solid	6010B	366373
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	6010B	366081
500-121505-7	1314V3-18-B09 (0-8)	SPLP East	Solid	6010B	366373
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	6010B	366081
LB 500-366174/1-B	Method Blank	SPLP East	Solid	6010B	366373
MB 500-366081/1-A	Method Blank	Total/NA	Solid	6010B	366081
LCS 500-366081/2-A	Lab Control Sample	Total/NA	Solid	6010B	366081
LCS 500-366373/2-A	Lab Control Sample	Total/NA	Solid	6010B	366373
500-121505-1 MS	1314V3-18-B02 (0-7)	Total/NA	Solid	6010B	366081
500-121505-1 MSD	1314V3-18-B02 (0-7)	Total/NA	Solid	6010B	366081
500-121505-1 DU	1314V3-18-B02 (0-7)	Total/NA	Solid	6010B	366081

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Metals (Continued)

Analysis Batch: 366689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	TCLP	Solid	6020A	366367
500-121505-2	1314V3-18-B02 (0-7)D	TCLP	Solid	6020A	366367
500-121505-3	1314V3-18-B02 (7-13)	TCLP	Solid	6020A	366367
500-121505-4	1314V3-18-B07 (0-8)	TCLP	Solid	6020A	366367
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	6020A	366367
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	6020A	366367
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	6020A	366367
LB 500-366175/1-C	Method Blank	TCLP	Solid	6020A	366367
LCS 500-366367/2-A	Lab Control Sample	Total/NA	Solid	6020A	366367

Analysis Batch: 366700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-5	1314V3-18-B04 (0-5.3)	TCLP	Solid	6010B	366367
500-121505-6	1314V3-18-B08 (0-4.4)	TCLP	Solid	6010B	366367
500-121505-7	1314V3-18-B09 (0-8)	TCLP	Solid	6010B	366367

Analysis Batch: 366837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	6010B	366081
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	6010B	366081

General Chemistry

Analysis Batch: 365824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	Moisture	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	Moisture	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	Moisture	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	Moisture	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	Moisture	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	Moisture	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	Moisture	
500-121505-7 DU	1314V3-18-B09 (0-8)	Total/NA	Solid	Moisture	

Analysis Batch: 366167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121505-1	1314V3-18-B02 (0-7)	Total/NA	Solid	9045D	
500-121505-2	1314V3-18-B02 (0-7)D	Total/NA	Solid	9045D	
500-121505-3	1314V3-18-B02 (7-13)	Total/NA	Solid	9045D	
500-121505-4	1314V3-18-B07 (0-8)	Total/NA	Solid	9045D	
500-121505-5	1314V3-18-B04 (0-5.3)	Total/NA	Solid	9045D	
500-121505-6	1314V3-18-B08 (0-4.4)	Total/NA	Solid	9045D	
500-121505-7	1314V3-18-B09 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121505-1	1314V3-18-B02 (0-7)	100	117	125	105
500-121505-2	1314V3-18-B02 (0-7)D	101	116	120	107
500-121505-3	1314V3-18-B02 (7-13)	101	118	121	106
500-121505-4	1314V3-18-B07 (0-8)	102	116	126	108
500-121505-5	1314V3-18-B04 (0-5.3)	88	116	122	120
500-121505-6	1314V3-18-B08 (0-4.4)	98	115	125	110
500-121505-7	1314V3-18-B09 (0-8)	103	122 X	124	107
LCS 500-365775/4	Lab Control Sample	107	116	115	112
LCSD 500-365775/5	Lab Control Sample Dup	112	115	113	113
MB 500-365775/28	Method Blank	98	116	111	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121505-1	1314V3-18-B02 (0-7)	88	85	79	77	81	91
500-121505-1 MS	1314V3-18-B02 (0-7)	89	83	81	79	82	172 X
500-121505-1 MSD	1314V3-18-B02 (0-7)	84	80	77	77	69	157 X
500-121505-2	1314V3-18-B02 (0-7)D	77	74	68	69	83	90
500-121505-3	1314V3-18-B02 (7-13)	78	75	67	68	67	81
500-121505-4	1314V3-18-B07 (0-8)	85	84	76	77	48	95
500-121505-5	1314V3-18-B04 (0-5.3)	83	80	76	76	78	90
500-121505-6	1314V3-18-B08 (0-4.4)	80	79	69	70	89	94
500-121505-7	1314V3-18-B09 (0-8)	81	80	71	73	77	93

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-365775/28

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/19/16 15:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/19/16 15:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/19/16 15:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/19/16 15:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/19/16 15:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/19/16 15:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/19/16 15:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/19/16 15:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/19/16 15:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/19/16 15:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/19/16 15:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/19/16 15:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/19/16 15:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/19/16 15:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/19/16 15:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/19/16 15:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/19/16 15:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/19/16 15:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/19/16 15:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/19/16 15:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/19/16 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/19/16 15:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/19/16 15:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/19/16 15:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/19/16 15:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/19/16 15:10	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/19/16 15:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/19/16 15:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/19/16 15:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/19/16 15:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/19/16 15:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/19/16 15:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/19/16 15:10	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/19/16 15:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/19/16 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120		12/19/16 15:10	1
Dibromofluoromethane	116		75 - 120		12/19/16 15:10	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134		12/19/16 15:10	1
Toluene-d8 (Surr)	109		75 - 123		12/19/16 15:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365775/4

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0494		mg/Kg		99	40 - 148
Benzene	0.0500	0.0446		mg/Kg		89	70 - 120
Bromodichloromethane	0.0500	0.0464		mg/Kg		93	67 - 120
Bromoform	0.0500	0.0492		mg/Kg		98	50 - 129
Bromomethane	0.0500	0.0502		mg/Kg		100	50 - 134
2-Butanone (MEK)	0.0500	0.0455		mg/Kg		91	47 - 138
Carbon disulfide	0.0500	0.0379		mg/Kg		76	67 - 133
Carbon tetrachloride	0.0500	0.0514		mg/Kg		103	65 - 123
Chlorobenzene	0.0500	0.0444		mg/Kg		89	70 - 120
Chloroethane	0.0500	0.0488		mg/Kg		98	40 - 150
Chloroform	0.0500	0.0472		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0426		mg/Kg		85	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0456		mg/Kg		91	70 - 120
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	68 - 120
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0472		mg/Kg		94	65 - 126
1,1-Dichloroethene	0.0500	0.0404		mg/Kg		81	70 - 122
1,2-Dichloropropane	0.0500	0.0425		mg/Kg		85	70 - 126
Ethylbenzene	0.0500	0.0452		mg/Kg		90	70 - 120
2-Hexanone	0.0500	0.0441		mg/Kg		88	51 - 139
Methylene Chloride	0.0500	0.0425		mg/Kg		85	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0443		mg/Kg		89	51 - 141
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	70 - 121
Styrene	0.0500	0.0452		mg/Kg		90	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0472		mg/Kg		94	70 - 122
Toluene	0.0500	0.0438		mg/Kg		88	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	70 - 121
1,1,1-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 120
1,1,2-Trichloroethane	0.0500	0.0451		mg/Kg		90	70 - 120
Trichloroethene	0.0500	0.0482		mg/Kg		96	70 - 124
Vinyl acetate	0.0500	0.0357		mg/Kg		71	40 - 150
Vinyl chloride	0.0500	0.0450		mg/Kg		90	64 - 125
Xylenes, Total	0.100	0.0908		mg/Kg		91	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 120
Dibromofluoromethane	116		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365775/5

Matrix: Solid

Analysis Batch: 365775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0437		mg/Kg		87	40 - 148	12	30
Benzene	0.0500	0.0427		mg/Kg		85	70 - 120	4	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	67 - 120	2	30
Bromoform	0.0500	0.0479		mg/Kg		96	50 - 129	3	30
Bromomethane	0.0500	0.0477		mg/Kg		95	50 - 134	5	30
2-Butanone (MEK)	0.0500	0.0414		mg/Kg		83	47 - 138	9	30
Carbon disulfide	0.0500	0.0359		mg/Kg		72	67 - 133	5	30
Carbon tetrachloride	0.0500	0.0488		mg/Kg		98	65 - 123	5	30
Chlorobenzene	0.0500	0.0431		mg/Kg		86	70 - 120	3	30
Chloroethane	0.0500	0.0452		mg/Kg		90	40 - 150	8	30
Chloroform	0.0500	0.0456		mg/Kg		91	70 - 120	3	30
Chloromethane	0.0500	0.0417		mg/Kg		83	63 - 135	2	30
cis-1,2-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	1	30
cis-1,3-Dichloropropene	0.0500	0.0439		mg/Kg		88	70 - 120	4	30
Dibromochloromethane	0.0500	0.0463		mg/Kg		93	68 - 120	3	30
1,1-Dichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0458		mg/Kg		92	65 - 126	3	30
1,1-Dichloroethene	0.0500	0.0388		mg/Kg		78	70 - 122	4	30
1,2-Dichloropropane	0.0500	0.0411		mg/Kg		82	70 - 126	3	30
Ethylbenzene	0.0500	0.0440		mg/Kg		88	70 - 120	3	30
2-Hexanone	0.0500	0.0412		mg/Kg		82	51 - 139	7	30
Methylene Chloride	0.0500	0.0410		mg/Kg		82	70 - 121	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0414		mg/Kg		83	51 - 141	7	30
Methyl tert-butyl ether	0.0500	0.0440		mg/Kg		88	70 - 121	2	30
Styrene	0.0500	0.0439		mg/Kg		88	70 - 121	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	5	30
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 122	3	30
Toluene	0.0500	0.0429		mg/Kg		86	70 - 121	2	30
trans-1,2-Dichloroethene	0.0500	0.0430		mg/Kg		86	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 121	3	30
1,1,1-Trichloroethane	0.0500	0.0456		mg/Kg		91	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 120	5	30
Trichloroethene	0.0500	0.0443		mg/Kg		89	70 - 124	8	30
Vinyl acetate	0.0500	0.0345		mg/Kg		69	40 - 150	3	30
Vinyl chloride	0.0500	0.0439		mg/Kg		88	64 - 125	2	30
Xylenes, Total	0.100	0.0874		mg/Kg		87	70 - 123	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 120
Dibromofluoromethane	115		75 - 120
1,2-Dichloroethane-d4 (Surr)	113		69 - 134
Toluene-d8 (Surr)	113		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: 500-121505-1 MS

Matrix: Solid

Analysis Batch: 366660

Client Sample ID: 1314V3-18-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 366599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19		1.47	1.32		mg/Kg	☼	90	55 - 118
Bis(2-chloroethyl)ether	<0.19		1.47	1.09		mg/Kg	☼	75	53 - 116
1,3-Dichlorobenzene	<0.19		1.47	1.17		mg/Kg	☼	80	56 - 110
1,4-Dichlorobenzene	<0.19		1.47	1.17		mg/Kg	☼	79	57 - 110
1,2-Dichlorobenzene	<0.19		1.47	1.17		mg/Kg	☼	80	56 - 110
2-Methylphenol	<0.19		1.47	1.23		mg/Kg	☼	84	53 - 123
2,2'-oxybis[1-chloropropane]	<0.19		1.47	1.31		mg/Kg	☼	89	22 - 133
N-Nitrosodi-n-propylamine	<0.076		1.47	1.26		mg/Kg	☼	86	56 - 119
Hexachloroethane	<0.19	F1	1.47	0.666	F1	mg/Kg	☼	45	54 - 111
2-Chlorophenol	<0.19		1.47	1.27		mg/Kg	☼	87	57 - 117
Nitrobenzene	<0.038		1.47	1.21		mg/Kg	☼	83	56 - 121
Bis(2-chloroethoxy)methane	<0.19		1.47	1.20		mg/Kg	☼	82	59 - 116
1,2,4-Trichlorobenzene	<0.19		1.47	1.25		mg/Kg	☼	85	60 - 116
Isophorone	<0.19		1.47	1.15		mg/Kg	☼	78	54 - 120
2,4-Dimethylphenol	<0.38		1.47	1.23		mg/Kg	☼	84	50 - 120
Hexachlorobutadiene	<0.19		1.47	1.25		mg/Kg	☼	85	56 - 120
Naphthalene	<0.038		1.47	1.26		mg/Kg	☼	86	58 - 116
2,4-Dichlorophenol	<0.38		1.47	1.28		mg/Kg	☼	87	61 - 116
4-Chloroaniline	<0.76		1.47	1.13		mg/Kg	☼	77	10 - 150
2,4,6-Trichlorophenol	<0.38		1.47	1.27		mg/Kg	☼	87	50 - 120
2,4,5-Trichlorophenol	<0.38		1.47	1.25		mg/Kg	☼	85	42 - 119
Hexachlorocyclopentadiene	<0.76	F1	1.47	<0.74	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	<0.076		1.47	1.26		mg/Kg	☼	86	55 - 120
2-Nitroaniline	<0.19		1.47	1.03		mg/Kg	☼	70	52 - 121
2-Chloronaphthalene	<0.19		1.47	1.22		mg/Kg	☼	83	57 - 112
4-Chloro-3-methylphenol	<0.38		1.47	1.29		mg/Kg	☼	88	59 - 117
2,6-Dinitrotoluene	<0.19	F1	1.47	0.904		mg/Kg	☼	62	57 - 118
2-Nitrophenol	<0.38	F1	1.47	0.364	F1	mg/Kg	☼	25	58 - 121
3-Nitroaniline	<0.38		1.47	1.46		mg/Kg	☼	99	20 - 144
Dimethyl phthalate	<0.19		1.47	1.21		mg/Kg	☼	82	60 - 112
2,4-Dinitrophenol	<0.76	F1	2.93	<0.74	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038		1.47	1.17		mg/Kg	☼	80	57 - 116
2,4-Dinitrotoluene	<0.19	F1	1.47	0.745	F1	mg/Kg	☼	51	59 - 119
Acenaphthene	<0.038		1.47	1.28		mg/Kg	☼	88	52 - 113
Dibenzofuran	<0.19		1.47	1.33		mg/Kg	☼	91	59 - 110
4-Nitrophenol	<0.76		2.93	1.60		mg/Kg	☼	55	32 - 123
Fluorene	<0.038		1.47	1.33		mg/Kg	☼	91	56 - 115
4-Nitroaniline	<0.38		1.47	1.41		mg/Kg	☼	96	55 - 146
4-Bromophenyl phenyl ether	<0.19		1.47	1.34		mg/Kg	☼	91	61 - 124
Hexachlorobenzene	<0.076		1.47	1.32		mg/Kg	☼	90	62 - 126
Diethyl phthalate	<0.19		1.47	1.33		mg/Kg	☼	90	58 - 117
4-Chlorophenyl phenyl ether	<0.19		1.47	1.35		mg/Kg	☼	92	61 - 111
Pentachlorophenol	<0.76	F2	2.93	1.08		mg/Kg	☼	37	12 - 116
N-Nitrosodiphenylamine	<0.19		1.47	1.31		mg/Kg	☼	89	62 - 117
4,6-Dinitro-2-methylphenol	<0.76	F1	2.93	<0.74	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	<0.038		1.47	1.31		mg/Kg	☼	89	58 - 125
Anthracene	<0.038		1.47	1.28		mg/Kg	☼	87	57 - 118
Carbazole	<0.19		1.47	1.54		mg/Kg	☼	105	65 - 137

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121505-1 MS

Matrix: Solid

Analysis Batch: 366660

Client Sample ID: 1314V3-18-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 366599

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Di-n-butyl phthalate	<0.19		1.47	1.29		mg/Kg	☼	88	61 - 123
Fluoranthene	0.012	J	1.47	1.09		mg/Kg	☼	73	61 - 124
Pyrene	0.0096	J F1	1.47	2.26	F1	mg/Kg	☼	154	60 - 115
Butyl benzyl phthalate	<0.19		1.47	1.42		mg/Kg	☼	97	61 - 115
Benzo[a]anthracene	0.0059	J	1.47	1.25		mg/Kg	☼	85	63 - 115
Chrysene	<0.038		1.47	1.18		mg/Kg	☼	81	63 - 118
3,3'-Dichlorobenzidine	<0.19		1.47	0.876		mg/Kg	☼	60	40 - 110
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.47	2.03	F1	mg/Kg	☼	139	62 - 117
Di-n-octyl phthalate	<0.19	F1	1.47	0.578	F1	mg/Kg	☼	39	58 - 129
Benzo[b]fluoranthene	0.011	J	1.47	1.60		mg/Kg	☼	108	61 - 123
Benzo[k]fluoranthene	<0.038		1.47	1.62		mg/Kg	☼	110	59 - 125
Benzo[a]pyrene	<0.038		1.47	1.31		mg/Kg	☼	89	64 - 122
Indeno[1,2,3-cd]pyrene	<0.038		1.47	0.842		mg/Kg	☼	57	50 - 149
Dibenz(a,h)anthracene	<0.038	F1	1.47	0.846	F1	mg/Kg	☼	58	61 - 134
Benzo[g,h,i]perylene	<0.038	F1	1.47	0.782	F1	mg/Kg	☼	53	55 - 134
3 & 4 Methylphenol	<0.19		1.47	1.21		mg/Kg	☼	82	55 - 124

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	89		40 - 130
Phenol-d5	83		36 - 123
Nitrobenzene-d5	81		33 - 124
2-Fluorobiphenyl	79		42 - 115
2,4,6-Tribromophenol	82		25 - 130
Terphenyl-d14	172	X	25 - 150

Lab Sample ID: 500-121505-1 MSD

Matrix: Solid

Analysis Batch: 366660

Client Sample ID: 1314V3-18-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 366599

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.19		1.51	1.34		mg/Kg	☼	88	55 - 118	1	30
Bis(2-chloroethyl)ether	<0.19		1.51	1.06		mg/Kg	☼	70	53 - 116	3	30
1,3-Dichlorobenzene	<0.19		1.51	1.08		mg/Kg	☼	72	56 - 110	8	30
1,4-Dichlorobenzene	<0.19		1.51	1.10		mg/Kg	☼	73	57 - 110	5	30
1,2-Dichlorobenzene	<0.19		1.51	1.14		mg/Kg	☼	75	56 - 110	3	30
2-Methylphenol	<0.19		1.51	1.20		mg/Kg	☼	79	53 - 123	3	30
2,2'-oxybis[1-chloropropane]	<0.19		1.51	1.25		mg/Kg	☼	83	22 - 133	5	30
N-Nitrosodi-n-propylamine	<0.076		1.51	1.25		mg/Kg	☼	82	56 - 119	1	30
Hexachloroethane	<0.19	F1	1.51	0.687	F1	mg/Kg	☼	45	54 - 111	3	30
2-Chlorophenol	<0.19		1.51	1.23		mg/Kg	☼	81	57 - 117	3	30
Nitrobenzene	<0.038		1.51	1.18		mg/Kg	☼	78	56 - 121	3	30
Bis(2-chloroethoxy)methane	<0.19		1.51	1.17		mg/Kg	☼	78	59 - 116	2	30
1,2,4-Trichlorobenzene	<0.19		1.51	1.21		mg/Kg	☼	80	60 - 116	3	30
Isophorone	<0.19		1.51	1.12		mg/Kg	☼	74	54 - 120	3	30
2,4-Dimethylphenol	<0.38		1.51	1.19		mg/Kg	☼	79	50 - 120	4	30
Hexachlorobutadiene	<0.19		1.51	1.20		mg/Kg	☼	79	56 - 120	4	30
Naphthalene	<0.038		1.51	1.20		mg/Kg	☼	79	58 - 116	5	30
2,4-Dichlorophenol	<0.38		1.51	1.21		mg/Kg	☼	80	61 - 116	6	30

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121505-1 MSD
Matrix: Solid
Analysis Batch: 366660

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 366599

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Chloroaniline	<0.76		1.51	1.09		mg/Kg	☼	72	10 - 150	3	30
2,4,6-Trichlorophenol	<0.38		1.51	1.16		mg/Kg	☼	77	50 - 120	9	30
2,4,5-Trichlorophenol	<0.38		1.51	1.12		mg/Kg	☼	74	42 - 119	11	30
Hexachlorocyclopentadiene	<0.76	F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	<0.076		1.51	1.20		mg/Kg	☼	79	55 - 120	5	30
2-Nitroaniline	<0.19		1.51	1.01		mg/Kg	☼	67	52 - 121	2	30
2-Chloronaphthalene	<0.19		1.51	1.21		mg/Kg	☼	80	57 - 112	1	30
4-Chloro-3-methylphenol	<0.38		1.51	1.20		mg/Kg	☼	79	59 - 117	7	30
2,6-Dinitrotoluene	<0.19	F1	1.51	0.846	F1	mg/Kg	☼	56	57 - 118	7	30
2-Nitrophenol	<0.38	F1	1.51	0.323	J F1	mg/Kg	☼	21	58 - 121	12	30
3-Nitroaniline	<0.38		1.51	1.54		mg/Kg	☼	102	20 - 144	5	30
Dimethyl phthalate	<0.19		1.51	1.17		mg/Kg	☼	77	60 - 112	3	30
2,4-Dinitrophenol	<0.76	F1	3.03	<0.76	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038		1.51	1.10		mg/Kg	☼	73	57 - 116	6	30
2,4-Dinitrotoluene	<0.19	F1	1.51	0.733	F1	mg/Kg	☼	48	59 - 119	2	30
Acenaphthene	<0.038		1.51	1.21		mg/Kg	☼	80	52 - 113	6	30
Dibenzofuran	<0.19		1.51	1.30		mg/Kg	☼	86	59 - 110	2	30
4-Nitrophenol	<0.76		3.03	1.27		mg/Kg	☼	42	32 - 123	23	30
Fluorene	<0.038		1.51	1.28		mg/Kg	☼	85	56 - 115	4	30
4-Nitroaniline	<0.38		1.51	1.51		mg/Kg	☼	100	55 - 146	7	30
4-Bromophenyl phenyl ether	<0.19		1.51	1.24		mg/Kg	☼	82	61 - 124	7	30
Hexachlorobenzene	<0.076		1.51	1.26		mg/Kg	☼	83	62 - 126	5	30
Diethyl phthalate	<0.19		1.51	1.32		mg/Kg	☼	87	58 - 117	1	30
4-Chlorophenyl phenyl ether	<0.19		1.51	1.28		mg/Kg	☼	85	61 - 111	5	30
Pentachlorophenol	<0.76	F2	3.03	0.649	J F2	mg/Kg	☼	21	12 - 116	50	30
N-Nitrosodiphenylamine	<0.19		1.51	1.19		mg/Kg	☼	79	62 - 117	9	30
4,6-Dinitro-2-methylphenol	<0.76	F1	3.03	<0.76	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	<0.038		1.51	1.25		mg/Kg	☼	82	58 - 125	5	30
Anthracene	<0.038		1.51	1.22		mg/Kg	☼	81	57 - 118	5	30
Carbazole	<0.19		1.51	1.47		mg/Kg	☼	97	65 - 137	4	30
Di-n-butyl phthalate	<0.19		1.51	1.24		mg/Kg	☼	82	61 - 123	4	30
Fluoranthene	0.012	J	1.51	1.07		mg/Kg	☼	70	61 - 124	1	30
Pyrene	0.0096	J F1	1.51	2.08	F1	mg/Kg	☼	137	60 - 115	8	30
Butyl benzyl phthalate	<0.19		1.51	1.49		mg/Kg	☼	98	61 - 115	5	30
Benzo[a]anthracene	0.0059	J	1.51	1.21		mg/Kg	☼	80	63 - 115	4	30
Chrysene	<0.038		1.51	1.17		mg/Kg	☼	77	63 - 118	1	30
3,3'-Dichlorobenzidine	<0.19		1.51	0.894		mg/Kg	☼	59	40 - 110	2	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.51	1.94	F1	mg/Kg	☼	128	62 - 117	5	30
Di-n-octyl phthalate	<0.19	F1	1.51	0.619	F1	mg/Kg	☼	41	58 - 129	7	30
Benzo[b]fluoranthene	0.011	J	1.51	1.60		mg/Kg	☼	105	61 - 123	0	30
Benzo[k]fluoranthene	<0.038		1.51	1.55		mg/Kg	☼	102	59 - 125	4	30
Benzo[a]pyrene	<0.038		1.51	1.25		mg/Kg	☼	83	64 - 122	4	30
Indeno[1,2,3-cd]pyrene	<0.038		1.51	0.775		mg/Kg	☼	51	50 - 149	8	30
Dibenz(a,h)anthracene	<0.038	F1	1.51	0.781	F1	mg/Kg	☼	52	61 - 134	8	30
Benzo[g,h,i]perylene	<0.038	F1	1.51	0.713	F1	mg/Kg	☼	47	55 - 134	9	30
3 & 4 Methylphenol	<0.19		1.51	1.15		mg/Kg	☼	76	55 - 124	5	30

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121505-1 MSD
Matrix: Solid
Analysis Batch: 366660

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 366599

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	84		40 - 130
Phenol-d5	80		36 - 123
Nitrobenzene-d5	77		33 - 124
2-Fluorobiphenyl	77		42 - 115
2,4,6-Tribromophenol	69		25 - 130
Terphenyl-d14	157	X	25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-366081/1-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366081

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Barium	<1.0		1.0	0.18	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Boron	<5.0		5.0	0.70	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Calcium	<20		20	6.4	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Chromium	0.320	J	1.0	0.17	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Copper	<1.0		1.0	0.22	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Iron	<20		20	7.7	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Lead	<0.50		0.50	0.25	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Magnesium	<10		10	4.1	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Potassium	<50		50	8.2	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Silver	<0.50		0.50	0.12	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Sodium	<100		100	13	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/21/16 08:13	12/23/16 22:47	1

Lab Sample ID: LCS 500-366081/2-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366081

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	48.8		mg/Kg		98		80 - 120
Arsenic	10.0	9.47		mg/Kg		95		80 - 120
Barium	200	197		mg/Kg		99		80 - 120
Beryllium	5.00	5.11		mg/Kg		102		80 - 120
Boron	100	94.2		mg/Kg		94		80 - 120
Cadmium	5.00	4.96		mg/Kg		99		80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-366081/2-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	1000	999		mg/Kg		100	80 - 120
Chromium	20.0	20.7		mg/Kg		103	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	25.0	25.0		mg/Kg		100	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.99		mg/Kg		100	80 - 120
Magnesium	1000	987		mg/Kg		99	80 - 120
Manganese	50.0	52.1		mg/Kg		104	80 - 120
Nickel	50.0	50.1		mg/Kg		100	80 - 120
Potassium	1000	895		mg/Kg		89	80 - 120
Selenium	10.0	9.15		mg/Kg		91	80 - 120
Silver	5.00	4.86		mg/Kg		97	80 - 120
Sodium	1000	943		mg/Kg		94	80 - 120
Thallium	10.0	9.75		mg/Kg		97	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120

Lab Sample ID: 500-121505-1 MS
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 366081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.58	J F1	28.3	6.59	F1	mg/Kg	☼	21	75 - 125
Arsenic	4.0		5.65	9.03		mg/Kg	☼	90	75 - 125
Barium	78		113	170		mg/Kg	☼	82	75 - 125
Beryllium	0.59		2.83	3.14		mg/Kg	☼	91	75 - 125
Boron	2.5		56.5	46.1		mg/Kg	☼	77	75 - 125
Cadmium	<0.095		2.83	2.23		mg/Kg	☼	79	75 - 125
Calcium	14000		565	12300	4	mg/Kg	☼	-269	75 - 125
Chromium	15	B	11.3	28.5		mg/Kg	☼	122	75 - 125
Cobalt	5.8		28.3	29.2		mg/Kg	☼	83	75 - 125
Copper	12		14.1	26.4		mg/Kg	☼	100	75 - 125
Iron	15000		56.5	18800	4	mg/Kg	☼	7410	75 - 125
Lead	9.1		5.65	14.1		mg/Kg	☼	87	75 - 125
Magnesium	8100		565	7940	4	mg/Kg	☼	-29	75 - 125
Manganese	290		28.3	313	4	mg/Kg	☼	72	75 - 125
Nickel	14		28.3	39.6		mg/Kg	☼	92	75 - 125
Potassium	780	F1	565	1900	F1	mg/Kg	☼	199	75 - 125
Selenium	0.46	J F1	5.65	4.75		mg/Kg	☼	76	75 - 125
Silver	<0.24		2.83	2.39		mg/Kg	☼	85	75 - 125
Sodium	100		565	686		mg/Kg	☼	103	75 - 125
Thallium	0.98		5.65	5.97		mg/Kg	☼	88	75 - 125
Vanadium	26		28.3	57.2		mg/Kg	☼	111	75 - 125
Zinc	32		28.3	60.9		mg/Kg	☼	101	75 - 125

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121505-1 MSD

Matrix: Solid

Analysis Batch: 366688

Client Sample ID: 1314V3-18-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 366081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Antimony	0.58	J F1	27.2	6.82	F1	mg/Kg	☼	23	75 - 125	4	20
Arsenic	4.0		5.43	8.41		mg/Kg	☼	82	75 - 125	7	20
Barium	78		109	171		mg/Kg	☼	86	75 - 125	1	20
Beryllium	0.59		2.72	3.01		mg/Kg	☼	89	75 - 125	5	20
Boron	2.5		54.3	44.1		mg/Kg	☼	76	75 - 125	5	20
Cadmium	<0.095		2.72	2.15		mg/Kg	☼	79	75 - 125	4	20
Calcium	14000		543	13600	4	mg/Kg	☼	-44	75 - 125	10	20
Chromium	15	B	10.9	27.9		mg/Kg	☼	121	75 - 125	2	20
Cobalt	5.8		27.2	27.8		mg/Kg	☼	81	75 - 125	5	20
Copper	12		13.6	24.9		mg/Kg	☼	94	75 - 125	6	20
Iron	15000		54.3	17200	4	mg/Kg	☼	4680	75 - 125	9	20
Lead	9.1		5.43	13.9		mg/Kg	☼	88	75 - 125	1	20
Magnesium	8100		543	7860	4	mg/Kg	☼	-46	75 - 125	1	20
Manganese	290		27.2	341	4	mg/Kg	☼	178	75 - 125	9	20
Nickel	14		27.2	37.1		mg/Kg	☼	87	75 - 125	6	20
Potassium	780	F1	543	1830	F1	mg/Kg	☼	194	75 - 125	4	20
Selenium	0.46	J F1	5.43	4.44	F1	mg/Kg	☼	73	75 - 125	7	20
Silver	<0.24		2.72	2.27		mg/Kg	☼	84	75 - 125	5	20
Sodium	100		543	670		mg/Kg	☼	104	75 - 125	2	20
Thallium	0.98		5.43	5.53		mg/Kg	☼	84	75 - 125	8	20
Vanadium	26		27.2	55.7		mg/Kg	☼	110	75 - 125	3	20
Zinc	32		27.2	58.7		mg/Kg	☼	96	75 - 125	4	20

Lab Sample ID: 500-121505-1 DU

Matrix: Solid

Analysis Batch: 366688

Client Sample ID: 1314V3-18-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 366081

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	0.58	J F1	0.486	J	mg/Kg	☼	17	20
Arsenic	4.0		3.99		mg/Kg	☼	0.5	20
Barium	78		63.9		mg/Kg	☼	20	20
Beryllium	0.59		0.581		mg/Kg	☼	1	20
Boron	2.5		2.64		mg/Kg	☼	4	20
Cadmium	<0.095		<0.11		mg/Kg	☼	NC	20
Calcium	14000		13700		mg/Kg	☼	1	20
Chromium	15	B	14.9		mg/Kg	☼	0.7	20
Cobalt	5.8		5.91		mg/Kg	☼	2	20
Copper	12		12.7		mg/Kg	☼	4	20
Iron	15000		15200		mg/Kg	☼	4	20
Lead	9.1		9.29		mg/Kg	☼	2	20
Magnesium	8100		8000		mg/Kg	☼	1	20
Manganese	290		273		mg/Kg	☼	7	20
Nickel	14		14.8		mg/Kg	☼	9	20
Potassium	780	F1	795		mg/Kg	☼	2	20
Selenium	0.46	J F1	0.507	J	mg/Kg	☼	9	20
Silver	<0.24		<0.26		mg/Kg	☼	NC	20
Sodium	100		106		mg/Kg	☼	2	20
Thallium	0.98		0.958		mg/Kg	☼	2	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121505-1 DU
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 366081

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Vanadium	26		25.0		mg/Kg	✘	3	20
Zinc	32		35.2		mg/Kg	✘	8	20

Lab Sample ID: LCS 500-366367/2-A
Matrix: Solid
Analysis Batch: 366563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366367

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.474	J	mg/L		95	80 - 120
Beryllium	0.0500	0.0469		mg/L		94	80 - 120
Boron	1.00	0.866		mg/L		87	80 - 120
Cadmium	0.0500	0.0460		mg/L		92	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.500	0.472		mg/L		94	80 - 120
Iron	1.00	0.989		mg/L		99	80 - 120
Lead	0.100	0.0909		mg/L		91	80 - 120
Manganese	0.500	0.470		mg/L		94	80 - 120
Nickel	0.500	0.470		mg/L		94	80 - 120
Selenium	0.100	0.0882		mg/L		88	80 - 120
Silver	0.0500	0.0460		mg/L		92	80 - 120
Zinc	0.500	0.465	J	mg/L		93	80 - 120

Lab Sample ID: LCS 500-366373/2-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366373

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.543		mg/L		109	80 - 120

Lab Sample ID: LB 500-366175/1-C
Matrix: Solid
Analysis Batch: 366563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366367

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 11:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:46	12/23/16 11:51	1
Boron	<0.50		0.50	0.050	mg/L		12/22/16 13:46	12/23/16 11:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:46	12/23/16 11:51	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 11:51	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 11:51	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:46	12/23/16 11:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:46	12/23/16 11:51	1
Manganese	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 11:51	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 11:51	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:46	12/23/16 11:51	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:46	12/23/16 11:51	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:46	12/23/16 11:51	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-366174/1-B
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 366373

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 14:01	12/24/16 03:56	1
Manganese	<0.025		0.025	0.010	mg/L		12/22/16 14:01	12/24/16 03:56	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-366367/2-A
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366367
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.444		mg/L		89	80 - 120
Thallium	0.100	0.0986		mg/L		99	80 - 120

Lab Sample ID: LB 500-366175/1-C
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366367

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:46	12/23/16 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:46	12/23/16 12:42	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-366348/12-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 08:58	1

Lab Sample ID: LCS 500-366348/13-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366348
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00214		mg/L		107	80 - 120

Lab Sample ID: LB 500-366175/1-B
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366348

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 09:07	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-121505-1 MS
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: TCLP
Prep Batch: 366348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000787		mg/L		79	50 - 150

Lab Sample ID: 500-121505-1 DU
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-18-B02 (0-7)
Prep Type: TCLP
Prep Batch: 366348

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-365938/12-A
Matrix: Solid
Analysis Batch: 366132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/20/16 13:30	12/21/16 09:25	1

Lab Sample ID: LCS 500-365938/13-A
Matrix: Solid
Analysis Batch: 366132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:25	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:19	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 12:49	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 13:42		
					(End)	12/21/16 13:48		
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B02 (0-7)

Lab Sample ID: 500-121505-1

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 19:05	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 11:04	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 23:00	KML	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 09:55	MJD	TAL CHI

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:32	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:23	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366689	12/23/16 12:52	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 13:48 (End) 12/21/16 13:55	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B02 (0-7)D

Lab Sample ID: 500-121505-2

Date Collected: 12/14/16 15:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 19:31	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 11:32	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 23:34	KML	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 09:57	MJD	TAL CHI

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:39	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:28	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 12:56	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 13:55 (End) 12/21/16 14:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B02 (7-13)

Lab Sample ID: 500-121505-3

Date Collected: 12/14/16 15:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 19:57	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 12:00	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 23:41	KML	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:00	MJD	TAL CHI

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:46	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:33	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 12:59	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167	(Start) 12/21/16 14:01 (End) 12/21/16 14:07	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 20:24	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 14:47	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/23/16 23:48	KML	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366837	12/27/16 20:46	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B07 (0-8)

Lab Sample ID: 500-121505-4

Date Collected: 12/14/16 15:35

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:02	MJD	TAL CHI

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:53	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:45	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366700	12/23/16 16:13	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 13:03	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:21	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 14:07		
					(End)	12/21/16 14:13		
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B04 (0-5.3)

Lab Sample ID: 500-121505-5

Date Collected: 12/14/16 16:10

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 20:50	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 15:15	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:10	KML	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 04:59	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366563	12/23/16 12:50	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366700	12/23/16 16:17	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 13:06	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 14:13		
					(End)	12/21/16 14:19		
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B08 (0-4.4)

Lab Sample ID: 500-121505-6

Date Collected: 12/14/16 16:25

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 21:16	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 15:42	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:17	KML	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:06	MJD	TAL CHI

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366174	12/21/16 15:20	RMP	TAL CHI
SPLP East	Prep	3010A			366373	12/22/16 14:01	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366688	12/24/16 05:06	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	366563	12/23/16 12:55	PJ1	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6010B		1	366700	12/23/16 16:21	KML	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366367	12/22/16 13:46	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 13:09	PFK	TAL CHI
TCLP	Leach	1311			366175	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366348	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 09:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366167		SMO	TAL CHI
					(Start)	12/21/16 14:19		
					(End)	12/21/16 14:25		
Total/NA	Analysis	Moisture		1	365824	12/19/16 16:00	LWN	TAL CHI

Client Sample ID: 1314V3-18-B09 (0-8)

Lab Sample ID: 500-121505-7

Date Collected: 12/14/16 17:00

Matrix: Solid

Date Received: 12/15/16 10:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365408	12/15/16 16:33	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365775	12/19/16 21:42	EMA	TAL CHI
Total/NA	Prep	3541			366599	12/23/16 17:58	JP1	TAL CHI
Total/NA	Analysis	8270D		1	366660	12/27/16 12:28	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:24	KML	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	366837	12/27/16 20:50	PJ1	TAL CHI
Total/NA	Prep	7471B			365938	12/20/16 13:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366132	12/21/16 10:09	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121505-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-121505 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121505
Chain of Custody Number: EE46-40
Page _____ of _____
Temperature °C of Cooler: 3.7

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						Comments
			Date	Time								
1		1314V3-18-B02(0-7)	12-14-16	1500	2	S	VOC					
2		1314V3-18-B02(0-7)D	12-14-16	1500	2	S	SUOC					
3		1314V3-18-B02(7-13)	12-14-16	1510	2	S	TOT/TA MOB					
4		1314V3-18-B07(0-8)	12-14-16	1535	2	S	TOT/SP TA MOB					
5		1314V3-18-B04(0-5.3)	12-14-16	1610	2	S	PH/0% Solids					
6		1314V3-18-B08(0-4.4)	12-14-16	1625	2	S						
7		1314V3-18-B09(0-8)	12-14-16	1700	2	S						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>12-14-16</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Company: <u>TA-EPE</u>	Date: <u>12/15/16</u>	Time: <u>1000</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
Shipped: Fed-X
Hand Delivered: _____

Matrix Key
 WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121505-1

Login Number: 121505

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121566-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/30/2016 8:00:03 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Job ID: 500-121566-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-121566-1**

Comments

No additional comments.

Receipt

The samples were received on 12/16/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: 1314V3-33-B03 (0-6) (500-121566-7), 1314V3-33-B04 (0-6) (500-121566-11), (500-121566-E-1-M MS) and (500-121566-E-1-N MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes. Data has been qualified and reported. (500-121566-E-1-M MS) and (500-121566-E-1-N MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0065	J	0.034	0.0052	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.012	J	0.034	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.041		0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.32	F1	0.034	0.0063	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.31	F1	0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.26		0.034	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.098		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.034	0.0088	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.021	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.056		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.0		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.20	J	0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J F1	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	7800		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.3	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	6.4		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	7000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.9		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	260		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J F1	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	85	B	51	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.011	J	0.016	0.0084	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0066	J	0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0074	J	0.034	0.0049	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.082		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.021	J	0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4) (Continued)

Lab Sample ID: 500-121566-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.14		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.13		0.034	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.072		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.070		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.034	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.049		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.084		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.034	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.7		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	1.3	J	2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.057	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.8	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.3		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	6.3		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	6.8		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5700	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.8		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	260		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	B	51	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.016	0.0085	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.037		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.085		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.085		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.040		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.093		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.057		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8) (Continued)

Lab Sample ID: 500-121566-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.029	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.5	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	6200		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	47		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3400	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	620		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	120	B	57	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.034	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0071	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.085		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.097		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.048		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.065		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.42		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.9	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)D (Continued)

Lab Sample ID: 500-121566-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.20		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	49		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3400	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	130	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.058	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.034		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.077		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.032	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.28		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.069		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.16		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.056		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.023	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	1.5	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	5700		12	3.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6) (Continued)

Lab Sample ID: 500-121566-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	13	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	680		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	460	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	3.1	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.13	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		13	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	13	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8100	B	6.3	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	170	B	63	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.068	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6) (Continued)

Lab Sample ID: 500-121566-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.0		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.50		0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.030	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	2.5		0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	1.7		0.19	0.044	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phtalate	0.13	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Fluorene - DL	2.9		0.75	0.11	mg/Kg	20	☼	8270D	Total/NA
Phenanthrene - DL	26		0.75	0.10	mg/Kg	20	☼	8270D	Total/NA
Anthracene - DL	6.4		0.75	0.13	mg/Kg	20	☼	8270D	Total/NA
Carbazole - DL	3.8		3.8	1.9	mg/Kg	20	☼	8270D	Total/NA
Fluoranthene - DL	34		0.75	0.14	mg/Kg	20	☼	8270D	Total/NA
Pyrene - DL	28		0.75	0.15	mg/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene - DL	14		0.75	0.10	mg/Kg	20	☼	8270D	Total/NA
Chrysene - DL	15		0.75	0.20	mg/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	18		0.75	0.16	mg/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	6.8		0.75	0.22	mg/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene - DL	13		0.75	0.15	mg/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	6.8		0.75	0.19	mg/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	2.1		0.75	0.14	mg/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	6.5		0.75	0.24	mg/Kg	20	☼	8270D	Total/NA
Arsenic	5.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.5	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	5800		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	620		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	350	B	57	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.046		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.043		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (6-12) (Continued)

Lab Sample ID: 500-121566-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.052		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.051		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.023	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8400	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	540		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	250	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0080	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0094	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0089	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6) (Continued)

Lab Sample ID: 500-121566-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.8		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	700		30	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	61	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	170	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.071	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6) (Continued)

Lab Sample ID: 500-121566-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.038	0.0060	mg/Kg	1	☼	☼	8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.078	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthylene	0.0098	J	0.038	0.0051	mg/Kg	1	☼	☼	8270D	Total/NA
Acenaphthene	0.014	J	0.038	0.0070	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.011	J	0.038	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.18		0.038	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.033	J	0.038	0.0065	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.36		0.038	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.62		0.038	0.0077	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.038	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.22		0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.19	0.071	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.36		0.038	0.0084	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.038	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.41	J	1.2	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	140		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.050	mg/Kg	1	☼	☼	6010B	Total/NA
Boron	2.5	J	2.9	0.40	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	2.9		0.12	0.033	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	16000		12	3.7	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	13	B	0.58	0.099	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	7.5		0.29	0.065	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	18		0.58	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	14000	B	12	4.4	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	890		0.29	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	7600	B	5.8	2.3	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	380		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	17		0.58	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	640		29	4.7	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.42	J	0.58	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	630	B	58	7.6	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	420		1.2	0.36	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.87		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.071	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.038		0.0050	0.0020	mg/L	1			6010B	TCLP
Lead	1.7		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	3.1		0.50	0.020	mg/L	1			6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Lead	3.7		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.49		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.11		0.017	0.0091	mg/Kg	1	☼	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	260	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	1.4	J	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	710		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	95	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6) (Continued)

Lab Sample ID: 500-121566-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	47		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.26	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	8.3		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	240		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	520		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	96	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121566-1	1314V3-33-B02 (0-5)	Solid	12/15/16 08:15	12/16/16 09:40
500-121566-2	1314V3-33-B02 (5-9.4)	Solid	12/15/16 08:20	12/16/16 09:40
500-121566-3	1314V3-33-B07 (0-8)	Solid	12/15/16 08:50	12/16/16 09:40
500-121566-4	1314V3-33-B07 (0-8)D	Solid	12/15/16 08:50	12/16/16 09:40
500-121566-5	1314V3-33-B01 (0-6)	Solid	12/15/16 09:10	12/16/16 09:40
500-121566-6	1314V3-33-B01 (6-12)	Solid	12/15/16 09:15	12/16/16 09:40
500-121566-7	1314V3-33-B03 (0-6)	Solid	12/15/16 09:40	12/16/16 09:40
500-121566-8	1314V3-33-B03 (6-12)	Solid	12/15/16 09:45	12/16/16 09:40
500-121566-9	1314V3-33-B05 (0-6)	Solid	12/15/16 10:15	12/16/16 09:40
500-121566-10	1314V3-33-B05 (6-12)	Solid	12/15/16 10:20	12/16/16 09:40
500-121566-11	1314V3-33-B04 (0-6)	Solid	12/15/16 10:55	12/16/16 09:40
500-121566-12	1314V3-33-B04 (6-12)	Solid	12/15/16 11:00	12/16/16 09:40
500-121566-13	1314V3-33-B06 (0-6)	Solid	12/15/16 11:40	12/16/16 09:40
500-121566-14	1314V3-33-B06 (6-12)	Solid	12/15/16 11:45	12/16/16 09:40

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 95.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0061	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Benzene	<0.0014		0.0014	0.00036	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Bromoform	<0.0014		0.0014	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
2-Butanone (MEK)	<0.0035		0.0035	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Carbon disulfide	<0.0035		0.0035	0.00073	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Carbon tetrachloride	<0.0014		0.0014	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Chlorobenzene	<0.0014		0.0014	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Chloroform	<0.0014		0.0014	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Dibromochloromethane	<0.0014		0.0014	0.00046	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,1-Dichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,1-Dichloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Ethylbenzene	<0.0014		0.0014	0.00067	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0010	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Styrene	<0.0014		0.0014	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Tetrachloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Toluene	<0.0014		0.0014	0.00035	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Trichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Vinyl acetate	<0.0035		0.0035	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Vinyl chloride	<0.0014		0.0014	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1
Xylenes, Total	<0.0028		0.0028	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/21/16 17:54	1
Dibromofluoromethane	111		75 - 120	12/16/16 14:45	12/21/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 134	12/16/16 14:45	12/21/16 17:54	1
Toluene-d8 (Surr)	109		75 - 123	12/16/16 14:45	12/21/16 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17	F1	0.17	0.076	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Bis(2-chloroethyl)ether	<0.17	F1	0.17	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
N-Nitrosodi-n-propylamine	<0.069	F1	0.069	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Naphthalene	0.0065	J	0.034	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Hexachlorocyclopentadiene	<0.69	F1	0.69	0.20	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Nitroaniline	<0.17	F1	0.17	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4-Dinitrophenol	<0.69	F1	0.69	0.60	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Acenaphthene	0.012	J	0.034	0.0061	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Fluorene	0.014	J	0.034	0.0048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Diethyl phthalate	<0.17	F1	0.17	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Pentachlorophenol	<0.69	F1	0.69	0.55	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
4,6-Dinitro-2-methylphenol	<0.69	F1	0.69	0.27	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Phenanthrene	0.19		0.034	0.0047	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Anthracene	0.041		0.034	0.0057	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Fluoranthene	0.32	F1	0.034	0.0063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Pyrene	0.31	F1	0.034	0.0068	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Butyl benzyl phthalate	<0.17	F1	0.17	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Benzo[a]anthracene	0.15		0.034	0.0046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.034	0.0093	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Bis(2-ethylhexyl) phthalate	<0.17	F1	0.17	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Di-n-octyl phthalate	<0.17	F1	0.17	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Benzo[b]fluoranthene	0.26		0.034	0.0073	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Benzo[k]fluoranthene	0.098		0.034	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Benzo[a]pyrene	0.17		0.034	0.0066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Indeno[1,2,3-cd]pyrene	0.061		0.034	0.0088	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Dibenz(a,h)anthracene	0.021	J	0.034	0.0066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
Benzo[g,h,i]perylene	0.056		0.034	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		40 - 130	12/23/16 07:25	12/27/16 15:03	1
Phenol-d5	112		36 - 123	12/23/16 07:25	12/27/16 15:03	1
Nitrobenzene-d5	105		33 - 124	12/23/16 07:25	12/27/16 15:03	1
2-Fluorobiphenyl	95		42 - 115	12/23/16 07:25	12/27/16 15:03	1
2,4,6-Tribromophenol	75		25 - 130	12/23/16 07:25	12/27/16 15:03	1
Terphenyl-d14	130		25 - 150	12/23/16 07:25	12/27/16 15:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1	1.0	0.21	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Arsenic	2.0		0.51	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Barium	26		0.51	0.094	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Beryllium	0.20	J	0.21	0.044	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Boron	1.1	J F1	2.6	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Cadmium	0.14		0.10	0.030	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Calcium	7800		10	3.3	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Chromium	6.3	B	0.51	0.088	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Cobalt	4.1		0.26	0.058	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Copper	6.4		0.51	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Iron	7000	B	10	4.0	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Lead	20		0.26	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Magnesium	2900	B	5.1	2.1	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Manganese	210		0.51	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Nickel	9.9		0.51	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Potassium	260		26	4.2	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Selenium	0.30	J F1	0.51	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Sodium	85	B	51	6.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Vanadium	10		0.26	0.075	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1
Zinc	25		1.0	0.32	mg/Kg	☼	12/22/16 14:34	12/28/16 18:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:22	1
Boron	<0.50		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 95.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Manganese	1.1		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Nickel	0.014	J	0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:22	1
Zinc	0.072	J	0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 02:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 14:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 14:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.016	0.0084	mg/Kg	☼	12/21/16 14:45	12/22/16 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 120	12/16/16 14:45	12/21/16 18:19	1
Dibromofluoromethane	105		75 - 120	12/16/16 14:45	12/21/16 18:19	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	12/16/16 14:45	12/21/16 18:19	1
Toluene-d8 (Surr)	107		75 - 123	12/16/16 14:45	12/21/16 18:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Acenaphthene	0.0066	J	0.034	0.0062	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Fluorene	0.0074	J	0.034	0.0049	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Phenanthrene	0.082		0.034	0.0048	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Anthracene	0.021	J	0.034	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Fluoranthene	0.14		0.034	0.0064	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Pyrene	0.13		0.034	0.0069	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Benzo[a]anthracene	0.072		0.034	0.0047	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.070		0.034	0.0094	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Benzo[b]fluoranthene	0.12		0.034	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Benzo[k]fluoranthene	0.049		0.034	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Benzo[a]pyrene	0.084		0.034	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.034	0.0090	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Benzo[g,h,i]perylene	0.024	J	0.034	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		40 - 130				12/23/16 07:25	12/27/16 12:33	1
Phenol-d5	119		36 - 123				12/23/16 07:25	12/27/16 12:33	1
Nitrobenzene-d5	106		33 - 124				12/23/16 07:25	12/27/16 12:33	1
2-Fluorobiphenyl	97		42 - 115				12/23/16 07:25	12/27/16 12:33	1
2,4,6-Tribromophenol	84		25 - 130				12/23/16 07:25	12/27/16 12:33	1
Terphenyl-d14	126		25 - 150				12/23/16 07:25	12/27/16 12:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.0	0.21	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Arsenic	2.7		0.51	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Barium	26		0.51	0.094	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Beryllium	0.24		0.21	0.045	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Boron	1.3	J	2.6	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Cadmium	0.057	J	0.10	0.030	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Calcium	10000		10	3.3	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Chromium	5.8	B	0.51	0.088	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Cobalt	4.3		0.26	0.058	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Copper	6.3		0.51	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Iron	11000	B	10	4.0	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Lead	6.8		0.26	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Magnesium	5700	B	5.1	2.1	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Manganese	270		0.51	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Nickel	9.8		0.51	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Potassium	260		26	4.2	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Selenium	0.33	J	0.51	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Sodium	140	B	51	6.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Vanadium	10		0.26	0.075	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1
Zinc	34		1.0	0.33	mg/Kg	☼	12/22/16 14:34	12/28/16 18:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:27	1
Boron	0.055	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 92.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Manganese	1.7		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Nickel	0.021	J	0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:27	1
Zinc	0.049	J	0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 03:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 14:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 14:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.016	0.0085	mg/Kg	☼	12/21/16 14:45	12/22/16 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/16/16 14:45	12/21/16 18:45	1
Dibromofluoromethane	109		75 - 120	12/16/16 14:45	12/21/16 18:45	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/16/16 14:45	12/21/16 18:45	1
Toluene-d8 (Surr)	108		75 - 123	12/16/16 14:45	12/21/16 18:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Phenanthrene	0.037		0.037	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Fluoranthene	0.085		0.037	0.0070	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Pyrene	0.085		0.037	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Benzo[a]anthracene	0.040		0.037	0.0050	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.049		0.037	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Benzo[b]fluoranthene	0.093		0.037	0.0081	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Benzo[k]fluoranthene	0.036	J	0.037	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Benzo[a]pyrene	0.057		0.037	0.0073	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.037	0.0097	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/23/16 07:25	12/27/16 12:58	1
Phenol-d5	113		36 - 123	12/23/16 07:25	12/27/16 12:58	1
Nitrobenzene-d5	103		33 - 124	12/23/16 07:25	12/27/16 12:58	1
2-Fluorobiphenyl	95		42 - 115	12/23/16 07:25	12/27/16 12:58	1
2,4,6-Tribromophenol	60		25 - 130	12/23/16 07:25	12/27/16 12:58	1
Terphenyl-d14	126		25 - 150	12/23/16 07:25	12/27/16 12:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Arsenic	6.4		0.57	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Barium	53		0.57	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Beryllium	0.41		0.23	0.050	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Boron	1.5	J	2.9	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Calcium	6200		11	3.7	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Chromium	11	B	0.57	0.099	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Cobalt	6.4		0.29	0.065	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Copper	11		0.57	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Iron	12000	B	11	4.4	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Lead	47		0.29	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Magnesium	3400	B	5.7	2.3	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Manganese	320		0.57	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Nickel	15		0.57	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Potassium	620		29	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Sodium	120	B	57	7.6	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Vanadium	18		0.29	0.084	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1
Zinc	43		1.1	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 18:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:32	1
Boron	0.070	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Lead	0.020		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Manganese	0.20		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:32	1
Zinc	0.051	J	0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:32	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.13		0.0075	0.0075	mg/L	-	12/23/16 14:24	12/28/16 03:28	1
Manganese	0.31		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 03:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 14:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 14:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0095	mg/Kg	☼	12/21/16 14:45	12/22/16 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 120	12/16/16 14:45	12/21/16 19:10	1
Dibromofluoromethane	99		75 - 120	12/16/16 14:45	12/21/16 19:10	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134	12/16/16 14:45	12/21/16 19:10	1
Toluene-d8 (Surr)	103		75 - 123	12/16/16 14:45	12/21/16 19:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Phenanthrene	0.034	J	0.039	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Anthracene	0.0071	J	0.039	0.0065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Fluoranthene	0.085		0.039	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Pyrene	0.097		0.039	0.0077	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Benzo[a]anthracene	0.048		0.039	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.048		0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Benzo[k]fluoranthene	0.036 J		0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Benzo[a]pyrene	0.065		0.039	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Indeno[1,2,3-cd]pyrene	0.031 J		0.039	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
Benzo[g,h,i]perylene	0.022 J		0.039	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/23/16 07:25	12/27/16 15:28	1
Phenol-d5	110		36 - 123	12/23/16 07:25	12/27/16 15:28	1
Nitrobenzene-d5	100		33 - 124	12/23/16 07:25	12/27/16 15:28	1
2-Fluorobiphenyl	92		42 - 115	12/23/16 07:25	12/27/16 15:28	1
2,4,6-Tribromophenol	59		25 - 130	12/23/16 07:25	12/27/16 15:28	1
Terphenyl-d14	132		25 - 150	12/23/16 07:25	12/27/16 15:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37 J		1.2	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Arsenic	5.7		0.58	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Barium	53		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Beryllium	0.42		0.23	0.050	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Boron	1.9 J		2.9	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Cadmium	0.20		0.12	0.033	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Calcium	13000		12	3.7	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Chromium	11 B		0.58	0.099	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Cobalt	6.6		0.29	0.065	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Copper	11		0.58	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Iron	12000 B		12	4.4	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Lead	49		0.29	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Magnesium	3400 B		5.8	2.3	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Manganese	360		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Nickel	16		0.58	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Potassium	700		29	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Selenium	0.34 J		0.58	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Sodium	130 B		58	7.6	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Vanadium	18		0.29	0.084	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1
Zinc	47		1.2	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 18:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:48	1
Boron	0.058 J		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Lead	0.034		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Manganese	0.32		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 16:48	1
Zinc	0.036	J	0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 16:48	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.077		0.0075	0.0075	mg/L	-	12/23/16 14:24	12/28/16 03:35	1
Manganese	0.26		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 03:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.010	mg/Kg	☼	12/21/16 14:45	12/22/16 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/21/16 19:36	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/21/16 19:36	1
1,2-Dichloroethane-d4 (Surr)	110		69 - 134	12/16/16 14:45	12/21/16 19:36	1
Toluene-d8 (Surr)	108		75 - 123	12/16/16 14:45	12/21/16 19:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Acenaphthene	0.013	J	0.039	0.0070	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Fluorene	0.012	J	0.039	0.0055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Phenanthrene	0.16		0.039	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Anthracene	0.032	J	0.039	0.0065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Fluoranthene	0.27		0.039	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Pyrene	0.28		0.039	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Benzo[a]anthracene	0.13		0.039	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Benzo[b]fluoranthene	0.23		0.039	0.0084	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Benzo[k]fluoranthene	0.069		0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Benzo[a]pyrene	0.16		0.039	0.0076	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Indeno[1,2,3-cd]pyrene	0.056		0.039	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Dibenz(a,h)anthracene	0.023	J	0.039	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/23/16 07:25	12/27/16 15:53	1
Phenol-d5	104		36 - 123	12/23/16 07:25	12/27/16 15:53	1
Nitrobenzene-d5	98		33 - 124	12/23/16 07:25	12/27/16 15:53	1
2-Fluorobiphenyl	91		42 - 115	12/23/16 07:25	12/27/16 15:53	1
2,4,6-Tribromophenol	51		25 - 130	12/23/16 07:25	12/27/16 15:53	1
Terphenyl-d14	134		25 - 150	12/23/16 07:25	12/27/16 15:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Arsenic	4.6		0.59	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Barium	70		0.59	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Beryllium	0.52		0.24	0.051	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Boron	1.5	J	2.9	0.41	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Cadmium	0.15		0.12	0.034	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Calcium	5700		12	3.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Chromium	13	B	0.59	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Cobalt	7.4		0.29	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Copper	12		0.59	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Iron	14000	B	12	4.5	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Lead	15		0.29	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Magnesium	2000	B	5.9	2.4	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Manganese	330		0.59	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Nickel	16		0.59	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Potassium	680		29	4.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Selenium	0.29	J	0.59	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Sodium	460	B	59	7.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Vanadium	19		0.29	0.086	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1
Zinc	98		1.2	0.37	mg/Kg	☼	12/22/16 14:34	12/28/16 18:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:53	1
Boron	0.065	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 16:53	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:53	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:53	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 16:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 16:53	1
Manganese	2.2		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:53	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:53	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 16:53	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:53	1
Zinc	0.13	J	0.50	0.020	mg/L		12/22/16 13:48	12/23/16 16:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		12/23/16 14:24	12/28/16 03:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 15:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 15:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0094	mg/Kg	☼	12/21/16 14:45	12/22/16 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0081	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/16/16 14:45	12/21/16 20:01	1
Dibromofluoromethane	108		75 - 120	12/16/16 14:45	12/21/16 20:01	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/16/16 14:45	12/21/16 20:01	1
Toluene-d8 (Surr)	113		75 - 123	12/16/16 14:45	12/21/16 20:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	12/23/16 07:25	12/27/16 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		40 - 130	12/23/16 07:25	12/27/16 13:23	1
Phenol-d5	109		36 - 123	12/23/16 07:25	12/27/16 13:23	1
Nitrobenzene-d5	98		33 - 124	12/23/16 07:25	12/27/16 13:23	1
2-Fluorobiphenyl	86		42 - 115	12/23/16 07:25	12/27/16 13:23	1
2,4,6-Tribromophenol	80		25 - 130	12/23/16 07:25	12/27/16 13:23	1
Terphenyl-d14	120		25 - 150	12/23/16 07:25	12/27/16 13:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Arsenic	5.6		0.63	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Barium	64		0.63	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Beryllium	0.50		0.25	0.054	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Boron	1.7 J		3.1	0.44	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Cadmium	0.17		0.13	0.036	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Calcium	13000		13	4.0	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Chromium	14 B		0.63	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Cobalt	8.2		0.31	0.071	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Copper	13		0.63	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Iron	14000 B		13	4.8	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Lead	9.4		0.31	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Magnesium	8100 B		6.3	2.5	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Manganese	330		0.63	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Nickel	22		0.63	0.17	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Potassium	650		31	5.1	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Selenium	<0.63		0.63	0.31	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Sodium	170 B		63	8.3	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Vanadium	22		0.31	0.091	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1
Zinc	43		1.3	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 18:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 16:58	1
Boron	0.068 J		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 16:58	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:58	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:58	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 16:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 16:58	1
Manganese	0.26		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:58	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:58	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 16:58	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 16:58	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:48	12/23/16 16:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L		12/23/16 14:24	12/28/16 03:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 15:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 15:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.011	mg/Kg	☼	12/21/16 14:45	12/22/16 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 120	12/16/16 14:45	12/21/16 20:27	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/21/16 20:27	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/16/16 14:45	12/21/16 20:27	1
Toluene-d8 (Surr)	95		75 - 123	12/16/16 14:45	12/21/16 20:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Naphthalene	1.0		0.037	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Methylnaphthalene	0.50		0.076	0.0069	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Acenaphthylene	0.030 J		0.037	0.0049	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Acenaphthene	2.5		0.037	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Dibenzofuran	1.7		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Bis(2-ethylhexyl) phthalate	0.13 J		0.19	0.069	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/23/16 07:25	12/27/16 16:43	1
Phenol-d5	108		36 - 123	12/23/16 07:25	12/27/16 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		33 - 124	12/23/16 07:25	12/27/16 16:43	1
2-Fluorobiphenyl	91		42 - 115	12/23/16 07:25	12/27/16 16:43	1
2,4,6-Tribromophenol	70		25 - 130	12/23/16 07:25	12/27/16 16:43	1
Terphenyl-d14	174	X	25 - 150	12/23/16 07:25	12/27/16 16:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	2.9		0.75	0.11	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Phenanthrene	26		0.75	0.10	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Anthracene	6.4		0.75	0.13	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Carbazole	3.8		3.8	1.9	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Fluoranthene	34		0.75	0.14	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Pyrene	28		0.75	0.15	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Benzo[a]anthracene	14		0.75	0.10	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Chrysene	15		0.75	0.20	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Benzo[b]fluoranthene	18		0.75	0.16	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Benzo[k]fluoranthene	6.8		0.75	0.22	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Benzo[a]pyrene	13		0.75	0.15	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Indeno[1,2,3-cd]pyrene	6.8		0.75	0.19	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Dibenz(a,h)anthracene	2.1		0.75	0.14	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20
Benzo[g,h,i]perylene	6.5		0.75	0.24	mg/Kg	☼	12/23/16 07:25	12/29/16 11:26	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Arsenic	5.4		0.57	0.26	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Barium	70		0.57	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Boron	1.5	J	2.9	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Cadmium	0.22		0.11	0.033	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Calcium	5800		11	3.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Chromium	13	B	0.57	0.098	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Cobalt	9.6		0.29	0.065	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Copper	11		0.57	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Iron	13000	B	11	4.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Lead	30		0.29	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Magnesium	2800	B	5.7	2.3	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Manganese	470		0.57	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Nickel	20		0.57	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Potassium	620		29	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Selenium	0.44	J	0.57	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Sodium	350	B	57	7.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Vanadium	20		0.29	0.084	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1
Zinc	50		1.1	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 19:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:02	1
Boron	0.073	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:02	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 17:02	1
Manganese	0.11		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:02	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 17:02	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:02	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:48	12/23/16 17:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 15:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 15:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.010	mg/Kg	☼	12/21/16 14:45	12/22/16 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/16/16 14:45	12/22/16 14:48	1
Dibromofluoromethane	100		75 - 120	12/16/16 14:45	12/22/16 14:48	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 134	12/16/16 14:45	12/22/16 14:48	1
Toluene-d8 (Surr)	107		75 - 123	12/16/16 14:45	12/22/16 14:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Phenanthrene	0.043		0.039	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Anthracene	0.011 J		0.039	0.0065	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Fluoranthene	0.052		0.039	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Pyrene	0.051		0.039	0.0077	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Benzo[a]anthracene	0.023 J		0.039	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Benzo[b]fluoranthene	0.034	J	0.039	0.0084	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Benzo[k]fluoranthene	0.016	J	0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Benzo[a]pyrene	0.024	J	0.039	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		40 - 130	12/23/16 07:25	12/27/16 13:48	1
Phenol-d5	105		36 - 123	12/23/16 07:25	12/27/16 13:48	1
Nitrobenzene-d5	97		33 - 124	12/23/16 07:25	12/27/16 13:48	1
2-Fluorobiphenyl	86		42 - 115	12/23/16 07:25	12/27/16 13:48	1
2,4,6-Tribromophenol	77		25 - 130	12/23/16 07:25	12/27/16 13:48	1
Terphenyl-d14	128		25 - 150	12/23/16 07:25	12/27/16 13:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Arsenic	5.5		0.58	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Barium	70		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Beryllium	0.44		0.23	0.051	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Boron	1.6	J	2.9	0.41	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Cadmium	0.18		0.12	0.034	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Calcium	13000		12	3.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Chromium	12	B	0.58	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Cobalt	9.2		0.29	0.066	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Copper	12		0.58	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Iron	13000	B	12	4.5	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Lead	10		0.29	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Magnesium	8400	B	5.8	2.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Manganese	490		0.58	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Nickel	20		0.58	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Potassium	540		29	4.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Selenium	0.49	J	0.58	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Sodium	250	B	58	7.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Vanadium	20		0.29	0.085	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1
Zinc	39		1.2	0.37	mg/Kg	☼	12/22/16 14:34	12/28/16 19:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:07	1
Boron	0.067	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Manganese	0.13		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:07	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0093	mg/Kg	☼	12/21/16 14:45	12/22/16 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/16/16 14:45	12/22/16 15:13	1
Dibromofluoromethane	108		75 - 120	12/16/16 14:45	12/22/16 15:13	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134	12/16/16 14:45	12/22/16 15:13	1
Toluene-d8 (Surr)	115		75 - 123	12/16/16 14:45	12/22/16 15:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Phenanthrene	0.0080	J	0.040	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Fluoranthene	0.015	J	0.040	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Pyrene	0.017	J	0.040	0.0079	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Benzo[a]anthracene	0.0094	J	0.040	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Benzo[a]pyrene	0.0089	J	0.040	0.0077	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	113		40 - 130	12/23/16 07:25	12/27/16 14:13	1
Phenol-d5	122		36 - 123	12/23/16 07:25	12/27/16 14:13	1
Nitrobenzene-d5	108		33 - 124	12/23/16 07:25	12/27/16 14:13	1
2-Fluorobiphenyl	100		42 - 115	12/23/16 07:25	12/27/16 14:13	1
2,4,6-Tribromophenol	84		25 - 130	12/23/16 07:25	12/27/16 14:13	1
Terphenyl-d14	136		25 - 150	12/23/16 07:25	12/27/16 14:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Arsenic	5.9		0.61	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Barium	83		0.61	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Beryllium	0.53		0.24	0.053	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Boron	2.0	J	3.0	0.42	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Cadmium	0.21		0.12	0.035	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Calcium	14000		12	3.9	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Chromium	13	B	0.61	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Cobalt	9.8		0.30	0.069	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Copper	12		0.61	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Iron	14000	B	12	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Lead	24		0.30	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Magnesium	2600	B	6.1	2.5	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Manganese	590		0.61	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Nickel	19		0.61	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Potassium	700		30	5.0	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Sodium	290	B	61	8.0	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Vanadium	21		0.30	0.089	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1
Zinc	62		1.2	0.38	mg/Kg	☼	12/22/16 14:34	12/28/16 19:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:12	1
Boron	0.064	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Manganese	4.1		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:12	1
Zinc	0.045	J	0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 04:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0099	mg/Kg	☼	12/21/16 14:45	12/22/16 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/23/16 17:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0081	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 120	12/16/16 14:45	12/22/16 15:39	1
Dibromofluoromethane	101		75 - 120	12/16/16 14:45	12/22/16 15:39	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	12/16/16 14:45	12/22/16 15:39	1
Toluene-d8 (Surr)	111		75 - 123	12/16/16 14:45	12/22/16 15:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		40 - 130	12/23/16 07:25	12/27/16 14:38	1
Phenol-d5	113		36 - 123	12/23/16 07:25	12/27/16 14:38	1
Nitrobenzene-d5	106		33 - 124	12/23/16 07:25	12/27/16 14:38	1
2-Fluorobiphenyl	96		42 - 115	12/23/16 07:25	12/27/16 14:38	1
2,4,6-Tribromophenol	75		25 - 130	12/23/16 07:25	12/27/16 14:38	1
Terphenyl-d14	126		25 - 150	12/23/16 07:25	12/27/16 14:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Arsenic	5.1		0.60	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Barium	69		0.60	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Beryllium	0.49		0.24	0.052	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Boron	2.0	J	3.0	0.42	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Cadmium	0.13		0.12	0.035	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Calcium	15000		12	3.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Chromium	14	B	0.60	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Cobalt	7.0		0.30	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Copper	12		0.60	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Iron	14000	B	12	4.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Lead	8.7		0.30	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Magnesium	10000	B	6.0	2.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Manganese	340		0.60	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Nickel	18		0.60	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Potassium	690		30	4.9	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Selenium	0.40	J	0.60	0.30	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Sodium	170	B	60	7.9	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Vanadium	21		0.30	0.087	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1
Zinc	45		1.2	0.38	mg/Kg	☼	12/22/16 14:34	12/28/16 19:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:17	1
Boron	0.071	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:17	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:17	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 17:17	1
Manganese	0.21		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:17	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 17:17	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:17	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:48	12/23/16 17:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.025	0.010	mg/L		12/23/16 14:24	12/28/16 04:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 15:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 15:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.011	mg/Kg	☼	12/21/16 14:45	12/22/16 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/23/16 17:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/22/16 16:04	1
Dibromofluoromethane	111		75 - 120	12/16/16 14:45	12/22/16 16:04	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 134	12/16/16 14:45	12/22/16 16:04	1
Toluene-d8 (Surr)	107		75 - 123	12/16/16 14:45	12/22/16 16:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Naphthalene	0.011	J	0.038	0.0060	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Methylnaphthalene	0.0097	J	0.078	0.0071	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Acenaphthylene	0.0098	J	0.038	0.0051	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Acenaphthene	0.014	J	0.038	0.0070	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Fluorene	0.011	J	0.038	0.0054	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Phenanthrene	0.18		0.038	0.0054	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Anthracene	0.033	J	0.038	0.0065	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Fluoranthene	0.36		0.038	0.0072	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Pyrene	0.62		0.038	0.0077	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Benzo[a]anthracene	0.20		0.038	0.0052	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22		0.038	0.011	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.19	0.071	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Benzo[b]fluoranthene	0.36		0.038	0.0084	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Benzo[a]pyrene	0.20		0.038	0.0075	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/23/16 07:25	12/28/16 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		40 - 130	12/23/16 07:25	12/28/16 20:15	1
Phenol-d5	67		36 - 123	12/23/16 07:25	12/28/16 20:15	1
Nitrobenzene-d5	91		33 - 124	12/23/16 07:25	12/28/16 20:15	1
2-Fluorobiphenyl	86		42 - 115	12/23/16 07:25	12/28/16 20:15	1
2,4,6-Tribromophenol	31		25 - 130	12/23/16 07:25	12/28/16 20:15	1
Terphenyl-d14	160	X	25 - 150	12/23/16 07:25	12/28/16 20:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Barium	140		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Boron	2.5	J	2.9	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Cadmium	2.9		0.12	0.033	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Calcium	16000		12	3.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Chromium	13	B	0.58	0.099	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Cobalt	7.5		0.29	0.065	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Copper	18		0.58	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Iron	14000	B	12	4.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Lead	890		0.29	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Magnesium	7600	B	5.8	2.3	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Manganese	380		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Nickel	17		0.58	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Potassium	640		29	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Selenium	0.42	J	0.58	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Sodium	630	B	58	7.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Vanadium	19		0.29	0.084	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1
Zinc	420		1.2	0.36	mg/Kg	☼	12/22/16 14:34	12/28/16 19:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:21	1
Boron	0.071	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.038		0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Lead	1.7		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Manganese	0.48		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Nickel	0.017	J	0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:21	1
Zinc	3.1		0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0039	J	0.0050	0.0020	mg/L	-	12/23/16 14:24	12/28/16 04:22	1
Lead	3.7		0.0075	0.0075	mg/L	-	12/23/16 14:24	12/28/16 04:22	1
Manganese	0.49		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 04:22	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0091	mg/Kg	☼	12/21/16 14:45	12/22/16 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU	-		12/27/16 11:50	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	12/16/16 14:45	12/22/16 16:30	1
Dibromofluoromethane	107		75 - 120	12/16/16 14:45	12/22/16 16:30	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134	12/16/16 14:45	12/22/16 16:30	1
Toluene-d8 (Surr)	105		75 - 123	12/16/16 14:45	12/22/16 16:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		40 - 130	12/23/16 07:25	12/27/16 15:42	1
Phenol-d5	97		36 - 123	12/23/16 07:25	12/27/16 15:42	1
Nitrobenzene-d5	83		33 - 124	12/23/16 07:25	12/27/16 15:42	1
2-Fluorobiphenyl	81		42 - 115	12/23/16 07:25	12/27/16 15:42	1
2,4,6-Tribromophenol	72		25 - 130	12/23/16 07:25	12/27/16 15:42	1
Terphenyl-d14	95		25 - 150	12/23/16 07:25	12/27/16 15:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Arsenic	6.3		0.60	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Barium	64		0.60	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Beryllium	0.45		0.24	0.052	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Boron	1.7	J	3.0	0.42	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Cadmium	0.16		0.12	0.035	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Calcium	19000		12	3.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Chromium	12	B	0.60	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Cobalt	7.0		0.30	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Copper	11		0.60	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Iron	13000	B	12	4.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Lead	10		0.30	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Magnesium	12000	B	6.0	2.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Manganese	370		0.60	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Nickel	19		0.60	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Potassium	610		30	4.9	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Sodium	260	B	60	7.9	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Vanadium	20		0.30	0.087	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1
Zinc	37		1.2	0.38	mg/Kg	☼	12/22/16 14:34	12/28/16 19:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:26	1
Boron	0.054	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Cobalt	0.019	J	0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Manganese	2.9		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Nickel	0.046		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:26	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 04:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	12/21/16 14:45	12/22/16 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU	-		12/27/16 12:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/16/16 14:45	12/22/16 16:55	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/22/16 16:55	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 134	12/16/16 14:45	12/22/16 16:55	1
Toluene-d8 (Surr)	108		75 - 123	12/16/16 14:45	12/22/16 16:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		40 - 130	12/23/16 07:25	12/27/16 16:11	1
Phenol-d5	91		36 - 123	12/23/16 07:25	12/27/16 16:11	1
Nitrobenzene-d5	90		33 - 124	12/23/16 07:25	12/27/16 16:11	1
2-Fluorobiphenyl	81		42 - 115	12/23/16 07:25	12/27/16 16:11	1
2,4,6-Tribromophenol	55		25 - 130	12/23/16 07:25	12/27/16 16:11	1
Terphenyl-d14	90		25 - 150	12/23/16 07:25	12/27/16 16:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.24	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Arsenic	5.5		0.58	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Barium	65		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Beryllium	0.54		0.23	0.050	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Boron	1.4	J	2.9	0.40	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Cadmium	0.13		0.12	0.033	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Calcium	29000		12	3.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Chromium	13	B	0.58	0.099	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Cobalt	9.0		0.29	0.065	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Copper	14		0.58	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Iron	14000	B	12	4.5	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Lead	15		0.29	0.14	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Magnesium	2100	B	5.8	2.3	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Manganese	390		0.58	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Nickel	20		0.58	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Potassium	710		29	4.7	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Sodium	95	B	58	7.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Vanadium	21		0.29	0.084	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1
Zinc	47		1.2	0.37	mg/Kg	☼	12/22/16 14:34	12/28/16 19:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:31	1
Boron	0.056	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 17:31	1
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:31	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 17:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 17:31	1
Manganese	0.43		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:31	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 17:31	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 17:31	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:48	12/23/16 17:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L		12/23/16 14:24	12/28/16 04:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 15:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 11:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.011	mg/Kg	☼	12/21/16 14:45	12/22/16 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/27/16 12:15	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Vinyl acetate	<0.0045		0.0045	0.0015	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/16/16 14:45	12/22/16 17:20	1
Dibromofluoromethane	105		75 - 120	12/16/16 14:45	12/22/16 17:20	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 134	12/16/16 14:45	12/22/16 17:20	1
Toluene-d8 (Surr)	106		75 - 123	12/16/16 14:45	12/22/16 17:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/23/16 07:25	12/27/16 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		40 - 130	12/23/16 07:25	12/27/16 16:40	1
Phenol-d5	91		36 - 123	12/23/16 07:25	12/27/16 16:40	1
Nitrobenzene-d5	86		33 - 124	12/23/16 07:25	12/27/16 16:40	1
2-Fluorobiphenyl	86		42 - 115	12/23/16 07:25	12/27/16 16:40	1
2,4,6-Tribromophenol	69		25 - 130	12/23/16 07:25	12/27/16 16:40	1
Terphenyl-d14	95		25 - 150	12/23/16 07:25	12/27/16 16:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.2	0.25	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Arsenic	4.9		0.59	0.27	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Barium	47		0.59	0.11	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Beryllium	0.44		0.24	0.051	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Boron	2.0	J	3.0	0.41	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Cadmium	0.10	J	0.12	0.034	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Calcium	20000		12	3.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Cobalt	6.5		0.30	0.067	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Copper	12		0.59	0.13	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Iron	12000	B	12	4.6	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Lead	8.3		0.30	0.15	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Magnesium	12000	B	5.9	2.4	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Manganese	240		0.59	0.12	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Nickel	15		0.59	0.16	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Potassium	520		30	4.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Sodium	96	B	59	7.8	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Vanadium	20		0.30	0.087	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1
Zinc	34		1.2	0.38	mg/Kg	☼	12/22/16 14:34	12/28/16 19:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 17:43	1
Boron	0.084	J	0.50	0.050	mg/L		12/22/16 13:48	12/23/16 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Iron	<0.40		0.40	0.20	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Manganese	0.26		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Silver	<0.025		0.025	0.010	mg/L	-	12/22/16 13:48	12/23/16 17:43	1
Zinc	<0.50		0.50	0.020	mg/L	-	12/22/16 13:48	12/23/16 17:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.076		0.025	0.010	mg/L	-	12/23/16 14:24	12/28/16 04:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/22/16 13:48	12/23/16 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/22/16 13:48	12/23/16 15:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/22/16 14:30	12/23/16 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.021	0.011	mg/Kg	☼	12/21/16 14:45	12/22/16 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		12/27/16 12:23	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

GC/MS VOA

Prep Batch: 365654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	5035	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	5035	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	5035	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	5035	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	5035	
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	5035	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	5035	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	5035	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	5035	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	5035	
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	5035	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	5035	
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	5035	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 366061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	8260B	365654
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	8260B	365654
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	8260B	365654
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	8260B	365654
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	8260B	365654
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	8260B	365654
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	8260B	365654
MB 500-366061/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-366061/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-366061/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 366259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	8260B	365654
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	8260B	365654
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	8260B	365654
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	8260B	365654
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	8260B	365654
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	8260B	365654
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	8260B	365654
MB 500-366259/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-366259/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-366259/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 366455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	3541	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	3541	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	3541	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	3541	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

GC/MS Semi VOA (Continued)

Prep Batch: 366455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	3541	
500-121566-7 - DL	1314V3-33-B03 (0-6)	Total/NA	Solid	3541	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	3541	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	3541	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	3541	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	3541	
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	3541	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	3541	
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	3541	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	3541	
MB 500-366455/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-366455/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121566-1 MS	1314V3-33-B02 (0-5)	Total/NA	Solid	3541	
500-121566-1 MSD	1314V3-33-B02 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 366664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	8270D	366455
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	8270D	366455
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	8270D	366455
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	8270D	366455
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	8270D	366455
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	8270D	366455
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	8270D	366455
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	8270D	366455
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	8270D	366455
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	8270D	366455
500-121566-1 MS	1314V3-33-B02 (0-5)	Total/NA	Solid	8270D	366455
500-121566-1 MSD	1314V3-33-B02 (0-5)	Total/NA	Solid	8270D	366455

Analysis Batch: 366695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	8270D	366455
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	8270D	366455
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	8270D	366455
MB 500-366455/1-A	Method Blank	Total/NA	Solid	8270D	366455
LCS 500-366455/2-A	Lab Control Sample	Total/NA	Solid	8270D	366455

Analysis Batch: 366869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	8270D	366455

Analysis Batch: 367001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-7 - DL	1314V3-33-B03 (0-6)	Total/NA	Solid	8270D	366455

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals

Prep Batch: 366137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	7471B	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	7471B	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	7471B	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	7471B	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	7471B	
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	7471B	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	7471B	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	7471B	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	7471B	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	7471B	
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	7471B	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	7471B	
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	7471B	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	7471B	
MB 500-366137/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-366137/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 366180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	1311	
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	1311	
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	1311	
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	1311	
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	1311	
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	1311	
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	1311	
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	1311	
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	1311	
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	1311	
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	1311	
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	1311	
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	1311	
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	1311	
LB 500-366180/1-B	Method Blank	TCLP	Solid	1311	
LB 500-366180/1-C	Method Blank	TCLP	Solid	1311	
LB 500-366180/1-D	Method Blank	TCLP	Solid	1311	
500-121566-1 MS	1314V3-33-B02 (0-5)	TCLP	Solid	1311	
500-121566-14 MS	1314V3-33-B06 (6-12)	TCLP	Solid	1311	
500-121566-1 DU	1314V3-33-B02 (0-5)	TCLP	Solid	1311	
500-121566-14 DU	1314V3-33-B06 (6-12)	TCLP	Solid	1311	

Leach Batch: 366333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	SPLP East	Solid	1312	
500-121566-2	1314V3-33-B02 (5-9.4)	SPLP East	Solid	1312	
500-121566-3	1314V3-33-B07 (0-8)	SPLP East	Solid	1312	
500-121566-4	1314V3-33-B07 (0-8)D	SPLP East	Solid	1312	
500-121566-5	1314V3-33-B01 (0-6)	SPLP East	Solid	1312	
500-121566-6	1314V3-33-B01 (6-12)	SPLP East	Solid	1312	
500-121566-9	1314V3-33-B05 (0-6)	SPLP East	Solid	1312	
500-121566-10	1314V3-33-B05 (6-12)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals (Continued)

Leach Batch: 366333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-11	1314V3-33-B04 (0-6)	SPLP East	Solid	1312	
500-121566-12	1314V3-33-B04 (6-12)	SPLP East	Solid	1312	
500-121566-13	1314V3-33-B06 (0-6)	SPLP East	Solid	1312	
500-121566-14	1314V3-33-B06 (6-12)	SPLP East	Solid	1312	
LB 500-366333/1-B	Method Blank	SPLP East	Solid	1312	
500-121566-14 MS	1314V3-33-B06 (6-12)	SPLP East	Solid	1312	
500-121566-14 DU	1314V3-33-B06 (6-12)	SPLP East	Solid	1312	

Analysis Batch: 366345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	7471B	366137
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	7471B	366137
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	7471B	366137
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	7471B	366137
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	7471B	366137
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	7471B	366137
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	7471B	366137
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	7471B	366137
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	7471B	366137
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	7471B	366137
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	7471B	366137
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	7471B	366137
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	7471B	366137
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	7471B	366137
MB 500-366137/12-A	Method Blank	Total/NA	Solid	7471B	366137
LCS 500-366137/13-A	Lab Control Sample	Total/NA	Solid	7471B	366137

Prep Batch: 366353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366180
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	7470A	366180
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	7470A	366180
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	7470A	366180
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	7470A	366180
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	7470A	366180
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	7470A	366180
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	7470A	366180
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	7470A	366180
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	7470A	366180
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	7470A	366180
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	7470A	366180
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	7470A	366180
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	7470A	366180
LB 500-366180/1-B	Method Blank	TCLP	Solid	7470A	366180
MB 500-366353/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-366353/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121566-1 MS	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366180
500-121566-1 DU	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366180

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals (Continued)

Prep Batch: 366368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	3010A	366180
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	3010A	366180
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	3010A	366180
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	3010A	366180
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	3010A	366180
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	3010A	366180
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	3010A	366180
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	3010A	366180
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	3010A	366180
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	3010A	366180
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	3010A	366180
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	3010A	366180
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	3010A	366180
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	3010A	366180
LB 500-366180/1-C	Method Blank	TCLP	Solid	3010A	366180
LB 500-366180/1-D	Method Blank	TCLP	Solid	3010A	366180
LCS 500-366368/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121566-14 MS	1314V3-33-B06 (6-12)	TCLP	Solid	3010A	366180
500-121566-14 DU	1314V3-33-B06 (6-12)	TCLP	Solid	3010A	366180

Prep Batch: 366379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	3050B	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	3050B	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	3050B	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	3050B	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	3050B	
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	3050B	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	3050B	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	3050B	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	3050B	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	3050B	
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	3050B	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	3050B	
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	3050B	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	3050B	
MB 500-366379/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-366379/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-121566-1 MS	1314V3-33-B02 (0-5)	Total/NA	Solid	3050B	
500-121566-1 MSD	1314V3-33-B02 (0-5)	Total/NA	Solid	3050B	
500-121566-1 DU	1314V3-33-B02 (0-5)	Total/NA	Solid	3050B	

Analysis Batch: 366539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366353
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	7470A	366353
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	7470A	366353
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	7470A	366353
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	7470A	366353
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	7470A	366353
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	7470A	366353

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals (Continued)

Analysis Batch: 366539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	7470A	366353
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	7470A	366353
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	7470A	366353
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	7470A	366353
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	7470A	366353
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	7470A	366353
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	7470A	366353
LB 500-366180/1-B	Method Blank	TCLP	Solid	7470A	366353
MB 500-366353/12-A	Method Blank	Total/NA	Solid	7470A	366353
LCS 500-366353/13-A	Lab Control Sample	Total/NA	Solid	7470A	366353
500-121566-1 MS	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366353
500-121566-1 DU	1314V3-33-B02 (0-5)	TCLP	Solid	7470A	366353

Prep Batch: 366571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	SPLP East	Solid	3010A	366333
500-121566-2	1314V3-33-B02 (5-9.4)	SPLP East	Solid	3010A	366333
500-121566-3	1314V3-33-B07 (0-8)	SPLP East	Solid	3010A	366333
500-121566-4	1314V3-33-B07 (0-8)D	SPLP East	Solid	3010A	366333
500-121566-5	1314V3-33-B01 (0-6)	SPLP East	Solid	3010A	366333
500-121566-6	1314V3-33-B01 (6-12)	SPLP East	Solid	3010A	366333
500-121566-9	1314V3-33-B05 (0-6)	SPLP East	Solid	3010A	366333
500-121566-10	1314V3-33-B05 (6-12)	SPLP East	Solid	3010A	366333
500-121566-11	1314V3-33-B04 (0-6)	SPLP East	Solid	3010A	366333
500-121566-12	1314V3-33-B04 (6-12)	SPLP East	Solid	3010A	366333
500-121566-13	1314V3-33-B06 (0-6)	SPLP East	Solid	3010A	366333
500-121566-14	1314V3-33-B06 (6-12)	SPLP East	Solid	3010A	366333
LB 500-366333/1-B	Method Blank	SPLP East	Solid	3010A	366333
LCS 500-366571/2-A	Lab Control Sample	Total/NA	Solid	3010A	366333
500-121566-14 MS	1314V3-33-B06 (6-12)	SPLP East	Solid	3010A	366333
500-121566-14 DU	1314V3-33-B06 (6-12)	SPLP East	Solid	3010A	366333

Analysis Batch: 366689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	6020A	366368
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	6020A	366368
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	6020A	366368
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	6020A	366368
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	6020A	366368
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	6020A	366368
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	6020A	366368
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	6020A	366368
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	6020A	366368
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	6020A	366368
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	6020A	366368
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	6020A	366368
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	6020A	366368
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	6020A	366368
LB 500-366180/1-C	Method Blank	TCLP	Solid	6020A	366368
LCS 500-366368/2-A	Lab Control Sample	Total/NA	Solid	6020A	366368
500-121566-14 MS	1314V3-33-B06 (6-12)	TCLP	Solid	6020A	366368

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals (Continued)

Analysis Batch: 366689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-14 DU	1314V3-33-B06 (6-12)	TCLP	Solid	6020A	366368

Analysis Batch: 366692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	TCLP	Solid	6010B	366368
500-121566-2	1314V3-33-B02 (5-9.4)	TCLP	Solid	6010B	366368
500-121566-3	1314V3-33-B07 (0-8)	TCLP	Solid	6010B	366368
500-121566-4	1314V3-33-B07 (0-8)D	TCLP	Solid	6010B	366368
500-121566-5	1314V3-33-B01 (0-6)	TCLP	Solid	6010B	366368
500-121566-6	1314V3-33-B01 (6-12)	TCLP	Solid	6010B	366368
500-121566-7	1314V3-33-B03 (0-6)	TCLP	Solid	6010B	366368
500-121566-8	1314V3-33-B03 (6-12)	TCLP	Solid	6010B	366368
500-121566-9	1314V3-33-B05 (0-6)	TCLP	Solid	6010B	366368
500-121566-10	1314V3-33-B05 (6-12)	TCLP	Solid	6010B	366368
500-121566-11	1314V3-33-B04 (0-6)	TCLP	Solid	6010B	366368
500-121566-12	1314V3-33-B04 (6-12)	TCLP	Solid	6010B	366368
500-121566-13	1314V3-33-B06 (0-6)	TCLP	Solid	6010B	366368
500-121566-14	1314V3-33-B06 (6-12)	TCLP	Solid	6010B	366368
LB 500-366180/1-D	Method Blank	TCLP	Solid	6010B	366368
LCS 500-366368/2-A	Lab Control Sample	Total/NA	Solid	6010B	366368
500-121566-14 MS	1314V3-33-B06 (6-12)	TCLP	Solid	6010B	366368
500-121566-14 DU	1314V3-33-B06 (6-12)	TCLP	Solid	6010B	366368

Analysis Batch: 366836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	SPLP East	Solid	6010B	366571
500-121566-2	1314V3-33-B02 (5-9.4)	SPLP East	Solid	6010B	366571
500-121566-3	1314V3-33-B07 (0-8)	SPLP East	Solid	6010B	366571
500-121566-4	1314V3-33-B07 (0-8)D	SPLP East	Solid	6010B	366571
500-121566-5	1314V3-33-B01 (0-6)	SPLP East	Solid	6010B	366571
500-121566-6	1314V3-33-B01 (6-12)	SPLP East	Solid	6010B	366571
500-121566-9	1314V3-33-B05 (0-6)	SPLP East	Solid	6010B	366571
500-121566-10	1314V3-33-B05 (6-12)	SPLP East	Solid	6010B	366571
500-121566-11	1314V3-33-B04 (0-6)	SPLP East	Solid	6010B	366571
500-121566-12	1314V3-33-B04 (6-12)	SPLP East	Solid	6010B	366571
500-121566-13	1314V3-33-B06 (0-6)	SPLP East	Solid	6010B	366571
500-121566-14	1314V3-33-B06 (6-12)	SPLP East	Solid	6010B	366571
LB 500-366333/1-B	Method Blank	SPLP East	Solid	6010B	366571
LCS 500-366571/2-A	Lab Control Sample	Total/NA	Solid	6010B	366571
500-121566-14 MS	1314V3-33-B06 (6-12)	SPLP East	Solid	6010B	366571
500-121566-14 DU	1314V3-33-B06 (6-12)	SPLP East	Solid	6010B	366571

Analysis Batch: 367012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	6010B	366379
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	6010B	366379
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	6010B	366379
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	6010B	366379
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	6010B	366379
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	6010B	366379
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	6010B	366379

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Metals (Continued)

Analysis Batch: 367012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	6010B	366379
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	6010B	366379
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	6010B	366379
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	6010B	366379
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	6010B	366379
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	6010B	366379
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	6010B	366379
MB 500-366379/1-A	Method Blank	Total/NA	Solid	6010B	366379
LCS 500-366379/2-A	Lab Control Sample	Total/NA	Solid	6010B	366379
500-121566-1 MS	1314V3-33-B02 (0-5)	Total/NA	Solid	6010B	366379
500-121566-1 MSD	1314V3-33-B02 (0-5)	Total/NA	Solid	6010B	366379
500-121566-1 DU	1314V3-33-B02 (0-5)	Total/NA	Solid	6010B	366379

General Chemistry

Analysis Batch: 365937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	Moisture	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	Moisture	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	Moisture	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	Moisture	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	Moisture	
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	Moisture	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	Moisture	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	Moisture	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	Moisture	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	Moisture	
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	Moisture	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	Moisture	
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	Moisture	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	Moisture	
500-121566-1 DU	1314V3-33-B02 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 366581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-1	1314V3-33-B02 (0-5)	Total/NA	Solid	9045D	
500-121566-2	1314V3-33-B02 (5-9.4)	Total/NA	Solid	9045D	
500-121566-3	1314V3-33-B07 (0-8)	Total/NA	Solid	9045D	
500-121566-4	1314V3-33-B07 (0-8)D	Total/NA	Solid	9045D	
500-121566-5	1314V3-33-B01 (0-6)	Total/NA	Solid	9045D	
500-121566-6	1314V3-33-B01 (6-12)	Total/NA	Solid	9045D	
500-121566-7	1314V3-33-B03 (0-6)	Total/NA	Solid	9045D	
500-121566-8	1314V3-33-B03 (6-12)	Total/NA	Solid	9045D	
500-121566-9	1314V3-33-B05 (0-6)	Total/NA	Solid	9045D	
500-121566-10	1314V3-33-B05 (6-12)	Total/NA	Solid	9045D	

Analysis Batch: 366858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-11	1314V3-33-B04 (0-6)	Total/NA	Solid	9045D	
500-121566-12	1314V3-33-B04 (6-12)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

General Chemistry (Continued)

Analysis Batch: 366858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121566-13	1314V3-33-B06 (0-6)	Total/NA	Solid	9045D	
500-121566-14	1314V3-33-B06 (6-12)	Total/NA	Solid	9045D	
500-121566-11 DU	1314V3-33-B04 (0-6)	Total/NA	Solid	9045D	

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Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121566-1	1314V3-33-B02 (0-5)	98	111	112	109
500-121566-2	1314V3-33-B02 (5-9.4)	91	105	102	107
500-121566-3	1314V3-33-B07 (0-8)	100	109	109	108
500-121566-4	1314V3-33-B07 (0-8)D	90	99	100	103
500-121566-5	1314V3-33-B01 (0-6)	98	110	110	108
500-121566-6	1314V3-33-B01 (6-12)	99	108	108	113
500-121566-7	1314V3-33-B03 (0-6)	96	110	109	95
500-121566-8	1314V3-33-B03 (6-12)	102	100	101	107
500-121566-9	1314V3-33-B05 (0-6)	100	108	100	115
500-121566-10	1314V3-33-B05 (6-12)	96	101	102	111
500-121566-11	1314V3-33-B04 (0-6)	98	111	112	107
500-121566-12	1314V3-33-B04 (6-12)	105	107	99	105
500-121566-13	1314V3-33-B06 (0-6)	99	110	106	108
500-121566-14	1314V3-33-B06 (6-12)	99	105	95	106
LCS 500-366061/5	Lab Control Sample	103	104	103	110
LCS 500-366259/5	Lab Control Sample	94	104	98	106
LCSD 500-366061/6	Lab Control Sample Dup	99	104	102	108
LCSD 500-366259/6	Lab Control Sample Dup	102	104	101	109
MB 500-366061/7	Method Blank	99	106	105	106
MB 500-366259/7	Method Blank	97	108	99	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121566-1	1314V3-33-B02 (0-5)	106	112	105	95	75	130
500-121566-1 MS	1314V3-33-B02 (0-5)	103	113	104	98	80	208 X
500-121566-1 MSD	1314V3-33-B02 (0-5)	98	111	99	89	77	199 X
500-121566-2	1314V3-33-B02 (5-9.4)	110	119	106	97	84	126
500-121566-3	1314V3-33-B07 (0-8)	103	113	103	95	60	126
500-121566-4	1314V3-33-B07 (0-8)D	101	110	100	92	59	132
500-121566-5	1314V3-33-B01 (0-6)	100	104	98	91	51	134
500-121566-6	1314V3-33-B01 (6-12)	100	109	98	86	80	120
500-121566-7	1314V3-33-B03 (0-6)	101	108	101	91	70	174 X
500-121566-7 - DL	1314V3-33-B03 (0-6)	51	48	94	92	32	104
500-121566-8	1314V3-33-B03 (6-12)	101	105	97	86	77	128
500-121566-9	1314V3-33-B05 (0-6)	113	122	108	100	84	136
500-121566-10	1314V3-33-B05 (6-12)	110	113	106	96	75	126
500-121566-11	1314V3-33-B04 (0-6)	103	67	91	86	31	160 X
500-121566-12	1314V3-33-B04 (6-12)	102	97	83	81	72	95
500-121566-13	1314V3-33-B06 (0-6)	97	91	90	81	55	90

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121566-14	1314V3-33-B06 (6-12)	98	91	86	86	69	95
LCS 500-366455/2-A	Lab Control Sample	108	106	95	86	80	95
MB 500-366455/1-A	Method Blank	105	103	87	89	66	98

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366061/7

Matrix: Solid

Analysis Batch: 366061

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/21/16 13:14	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 13:14	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/21/16 13:14	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 13:14	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/21/16 13:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/21/16 13:14	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/21/16 13:14	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 13:14	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/21/16 13:14	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 13:14	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 13:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/21/16 13:14	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 13:14	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/21/16 13:14	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 13:14	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/21/16 13:14	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 13:14	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/21/16 13:14	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 13:14	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 13:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 13:14	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/21/16 13:14	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 13:14	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/21/16 13:14	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 13:14	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 13:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 13:14	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 13:14	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/21/16 13:14	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/21/16 13:14	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 13:14	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/21/16 13:14	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 13:14	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/21/16 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120		12/21/16 13:14	1
Dibromofluoromethane	106		75 - 120		12/21/16 13:14	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134		12/21/16 13:14	1
Toluene-d8 (Surr)	106		75 - 123		12/21/16 13:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366061/5

Matrix: Solid

Analysis Batch: 366061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0631		mg/Kg		126	40 - 148
Benzene	0.0500	0.0502		mg/Kg		100	70 - 120
Bromodichloromethane	0.0500	0.0501		mg/Kg		100	67 - 120
Bromoform	0.0500	0.0518		mg/Kg		104	50 - 129
Bromomethane	0.0500	0.0477		mg/Kg		95	50 - 134
2-Butanone (MEK)	0.0500	0.0541		mg/Kg		108	47 - 138
Carbon disulfide	0.0500	0.0464		mg/Kg		93	67 - 133
Carbon tetrachloride	0.0500	0.0449		mg/Kg		90	65 - 123
Chlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0443		mg/Kg		89	40 - 150
Chloroform	0.0500	0.0492		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0575		mg/Kg		115	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0524		mg/Kg		105	70 - 120
Dibromochloromethane	0.0500	0.0515		mg/Kg		103	68 - 120
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 125
1,2-Dichloroethane	0.0500	0.0520		mg/Kg		104	65 - 126
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 122
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 126
Ethylbenzene	0.0500	0.0484		mg/Kg		97	70 - 120
2-Hexanone	0.0500	0.0566		mg/Kg		113	51 - 139
Methylene Chloride	0.0500	0.0469		mg/Kg		94	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0523		mg/Kg		105	51 - 141
Methyl tert-butyl ether	0.0500	0.0521		mg/Kg		104	70 - 121
Styrene	0.0500	0.0507		mg/Kg		101	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0444		mg/Kg		89	70 - 122
Toluene	0.0500	0.0497		mg/Kg		99	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	70 - 121
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 120
Trichloroethene	0.0500	0.0469		mg/Kg		94	70 - 124
Vinyl acetate	0.0500	0.0577		mg/Kg		115	40 - 150
Vinyl chloride	0.0500	0.0499		mg/Kg		100	64 - 125
Xylenes, Total	0.100	0.0996		mg/Kg		100	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-366061/6
Matrix: Solid
Analysis Batch: 366061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0662		mg/Kg		132	40 - 148	5	30
Benzene	0.0500	0.0505		mg/Kg		101	70 - 120	1	30
Bromodichloromethane	0.0500	0.0521		mg/Kg		104	67 - 120	4	30
Bromoform	0.0500	0.0530		mg/Kg		106	50 - 129	2	30
Bromomethane	0.0500	0.0480		mg/Kg		96	50 - 134	1	30
2-Butanone (MEK)	0.0500	0.0591		mg/Kg		118	47 - 138	9	30
Carbon disulfide	0.0500	0.0479		mg/Kg		96	67 - 133	3	30
Carbon tetrachloride	0.0500	0.0456		mg/Kg		91	65 - 123	2	30
Chlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120	1	30
Chloroethane	0.0500	0.0438		mg/Kg		88	40 - 150	1	30
Chloroform	0.0500	0.0513		mg/Kg		103	70 - 120	4	30
Chloromethane	0.0500	0.0560		mg/Kg		112	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 120	2	30
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	68 - 120	2	30
1,1-Dichloroethane	0.0500	0.0509		mg/Kg		102	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0534		mg/Kg		107	65 - 126	3	30
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 122	5	30
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 126	4	30
Ethylbenzene	0.0500	0.0481		mg/Kg		96	70 - 120	1	30
2-Hexanone	0.0500	0.0577		mg/Kg		115	51 - 139	2	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 121	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0526		mg/Kg		105	51 - 141	1	30
Methyl tert-butyl ether	0.0500	0.0545		mg/Kg		109	70 - 121	5	30
Styrene	0.0500	0.0509		mg/Kg		102	70 - 121	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0572		mg/Kg		114	70 - 125	7	30
Tetrachloroethene	0.0500	0.0457		mg/Kg		91	70 - 122	3	30
Toluene	0.0500	0.0491		mg/Kg		98	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 121	1	30
1,1,1-Trichloroethane	0.0500	0.0473		mg/Kg		95	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0536		mg/Kg		107	70 - 120	0	30
Trichloroethene	0.0500	0.0479		mg/Kg		96	70 - 124	2	30
Vinyl acetate	0.0500	0.0566		mg/Kg		113	40 - 150	2	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	64 - 125	3	30
Xylenes, Total	0.100	0.0982		mg/Kg		98	70 - 123	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	99		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		69 - 134
Toluene-d8 (Surr)	108		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366259/7

Matrix: Solid

Analysis Batch: 366259

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/22/16 10:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/22/16 10:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/22/16 10:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/22/16 10:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/22/16 10:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/22/16 10:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/22/16 10:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/22/16 10:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/22/16 10:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/22/16 10:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/22/16 10:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/22/16 10:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/22/16 10:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/22/16 10:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/22/16 10:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/22/16 10:09	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/22/16 10:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/22/16 10:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/22/16 10:09	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/22/16 10:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/22/16 10:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/22/16 10:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/22/16 10:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/22/16 10:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/22/16 10:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/22/16 10:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/22/16 10:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/22/16 10:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/22/16 10:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/22/16 10:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/22/16 10:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/22/16 10:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/22/16 10:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/22/16 10:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120		12/22/16 10:09	1
Dibromofluoromethane	108		75 - 120		12/22/16 10:09	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134		12/22/16 10:09	1
Toluene-d8 (Surr)	105		75 - 123		12/22/16 10:09	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366259/5

Matrix: Solid

Analysis Batch: 366259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0561		mg/Kg		112	40 - 148
Benzene	0.0500	0.0501		mg/Kg		100	70 - 120
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 120
Bromoform	0.0500	0.0466		mg/Kg		93	50 - 129
Bromomethane	0.0500	0.0466		mg/Kg		93	50 - 134
2-Butanone (MEK)	0.0500	0.0525		mg/Kg		105	47 - 138
Carbon disulfide	0.0500	0.0479		mg/Kg		96	67 - 133
Carbon tetrachloride	0.0500	0.0472		mg/Kg		94	65 - 123
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0449		mg/Kg		90	40 - 150
Chloroform	0.0500	0.0505		mg/Kg		101	70 - 120
Chloromethane	0.0500	0.0561		mg/Kg		112	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 120
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	68 - 120
1,1-Dichloroethane	0.0500	0.0511		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0511		mg/Kg		102	65 - 126
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 122
1,2-Dichloropropane	0.0500	0.0570		mg/Kg		114	70 - 126
Ethylbenzene	0.0500	0.0492		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0530		mg/Kg		106	51 - 139
Methylene Chloride	0.0500	0.0483		mg/Kg		97	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	51 - 141
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg		103	70 - 121
Styrene	0.0500	0.0484		mg/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0518		mg/Kg		104	70 - 125
Tetrachloroethene	0.0500	0.0473		mg/Kg		95	70 - 122
Toluene	0.0500	0.0498		mg/Kg		100	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 121
1,1,1-Trichloroethane	0.0500	0.0482		mg/Kg		96	70 - 120
1,1,2-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 124
Vinyl acetate	0.0500	0.0553		mg/Kg		111	40 - 150
Vinyl chloride	0.0500	0.0484		mg/Kg		97	64 - 125
Xylenes, Total	0.100	0.0956		mg/Kg		96	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		69 - 134
Toluene-d8 (Surr)	106		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-366259/6
Matrix: Solid
Analysis Batch: 366259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0533		mg/Kg		107	40 - 148	5	30
Benzene	0.0500	0.0512		mg/Kg		102	70 - 120	2	30
Bromodichloromethane	0.0500	0.0506		mg/Kg		101	67 - 120	5	30
Bromoform	0.0500	0.0495		mg/Kg		99	50 - 129	6	30
Bromomethane	0.0500	0.0466		mg/Kg		93	50 - 134	0	30
2-Butanone (MEK)	0.0500	0.0537		mg/Kg		107	47 - 138	2	30
Carbon disulfide	0.0500	0.0493		mg/Kg		99	67 - 133	3	30
Carbon tetrachloride	0.0500	0.0480		mg/Kg		96	65 - 123	2	30
Chlorobenzene	0.0500	0.0499		mg/Kg		100	70 - 120	0	30
Chloroethane	0.0500	0.0447		mg/Kg		89	40 - 150	0	30
Chloroform	0.0500	0.0517		mg/Kg		103	70 - 120	2	30
Chloromethane	0.0500	0.0581		mg/Kg		116	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0514		mg/Kg		103	70 - 120	5	30
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	70 - 120	2	30
Dibromochloromethane	0.0500	0.0505		mg/Kg		101	68 - 120	0	30
1,1-Dichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0506		mg/Kg		101	65 - 126	1	30
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 122	3	30
1,2-Dichloropropane	0.0500	0.0548		mg/Kg		110	70 - 126	4	30
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 120	0	30
2-Hexanone	0.0500	0.0490		mg/Kg		98	51 - 139	8	30
Methylene Chloride	0.0500	0.0498		mg/Kg		100	70 - 121	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0445		mg/Kg		89	51 - 141	6	30
Methyl tert-butyl ether	0.0500	0.0521		mg/Kg		104	70 - 121	1	30
Styrene	0.0500	0.0514		mg/Kg		103	70 - 121	6	30
1,1,1,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	3	30
Tetrachloroethene	0.0500	0.0461		mg/Kg		92	70 - 122	3	30
Toluene	0.0500	0.0498		mg/Kg		100	70 - 121	0	30
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 121	9	30
1,1,1-Trichloroethane	0.0500	0.0494		mg/Kg		99	70 - 120	2	30
1,1,2-Trichloroethane	0.0500	0.0527		mg/Kg		105	70 - 120	3	30
Trichloroethene	0.0500	0.0488		mg/Kg		98	70 - 124	7	30
Vinyl acetate	0.0500	0.0558		mg/Kg		112	40 - 150	1	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	64 - 125	5	30
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 123	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		69 - 134
Toluene-d8 (Surr)	109		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366455/1-A

Matrix: Solid

Analysis Batch: 366695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/23/16 07:25	12/27/16 15:13	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366455/1-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/23/16 07:25	12/27/16 15:13	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/23/16 07:25	12/27/16 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		40 - 130	12/23/16 07:25	12/27/16 15:13	1
Phenol-d5	103		36 - 123	12/23/16 07:25	12/27/16 15:13	1
Nitrobenzene-d5	87		33 - 124	12/23/16 07:25	12/27/16 15:13	1
2-Fluorobiphenyl	89		42 - 115	12/23/16 07:25	12/27/16 15:13	1
2,4,6-Tribromophenol	66		25 - 130	12/23/16 07:25	12/27/16 15:13	1
Terphenyl-d14	98		25 - 150	12/23/16 07:25	12/27/16 15:13	1

Lab Sample ID: LCS 500-366455/2-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.23		mg/Kg		93	55 - 118
Bis(2-chloroethyl)ether	1.33	1.25		mg/Kg		94	53 - 116
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	56 - 110
1,4-Dichlorobenzene	1.33	1.13		mg/Kg		85	57 - 110
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	56 - 110
2-Methylphenol	1.33	1.39		mg/Kg		104	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.23		mg/Kg		92	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.36		mg/Kg		102	56 - 119
Hexachloroethane	1.33	1.14		mg/Kg		86	54 - 111
2-Chlorophenol	1.33	1.19		mg/Kg		90	57 - 117
Nitrobenzene	1.33	1.18		mg/Kg		89	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.25		mg/Kg		94	59 - 116
1,2,4-Trichlorobenzene	1.33	1.10		mg/Kg		83	60 - 116
Isophorone	1.33	1.17		mg/Kg		88	54 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		80	50 - 120
Hexachlorobutadiene	1.33	1.06		mg/Kg		80	56 - 120
Naphthalene	1.33	1.15		mg/Kg		86	58 - 116
2,4-Dichlorophenol	1.33	1.14		mg/Kg		85	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366455/2-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.642	J	mg/Kg		48	10 - 150
2,4,6-Trichlorophenol	1.33	1.13		mg/Kg		85	50 - 120
2,4,5-Trichlorophenol	1.33	1.10		mg/Kg		83	42 - 119
Hexachlorocyclopentadiene	1.33	0.465	J	mg/Kg		35	10 - 116
2-Methylnaphthalene	1.33	1.17		mg/Kg		88	55 - 120
2-Nitroaniline	1.33	1.32		mg/Kg		99	52 - 121
2-Chloronaphthalene	1.33	1.15		mg/Kg		87	57 - 112
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	59 - 117
2,6-Dinitrotoluene	1.33	1.21		mg/Kg		91	57 - 118
2-Nitrophenol	1.33	1.20		mg/Kg		90	58 - 121
3-Nitroaniline	1.33	0.920		mg/Kg		69	20 - 144
Dimethyl phthalate	1.33	1.19		mg/Kg		89	60 - 112
2,4-Dinitrophenol	2.67	0.593	J	mg/Kg		22	10 - 110
Acenaphthylene	1.33	1.15		mg/Kg		86	57 - 116
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	59 - 119
Acenaphthene	1.33	1.14		mg/Kg		86	52 - 113
Dibenzofuran	1.33	1.16		mg/Kg		87	59 - 110
4-Nitrophenol	2.67	2.19		mg/Kg		82	32 - 123
Fluorene	1.33	1.17		mg/Kg		87	56 - 115
4-Nitroaniline	1.33	1.69		mg/Kg		126	55 - 146
4-Bromophenyl phenyl ether	1.33	1.15		mg/Kg		86	61 - 124
Hexachlorobenzene	1.33	1.09		mg/Kg		82	62 - 126
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.14		mg/Kg		85	61 - 111
Pentachlorophenol	2.67	1.90		mg/Kg		71	12 - 116
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	62 - 117
4,6-Dinitro-2-methylphenol	2.67	0.948		mg/Kg		36	10 - 110
Phenanthrene	1.33	1.19		mg/Kg		89	58 - 125
Anthracene	1.33	1.21		mg/Kg		91	57 - 118
Carbazole	1.33	1.42		mg/Kg		107	65 - 137
Di-n-butyl phthalate	1.33	1.29		mg/Kg		97	61 - 123
Fluoranthene	1.33	1.22		mg/Kg		92	61 - 124
Pyrene	1.33	1.22		mg/Kg		92	60 - 115
Butyl benzyl phthalate	1.33	1.32		mg/Kg		99	61 - 115
Benzo[a]anthracene	1.33	1.17		mg/Kg		87	63 - 115
Chrysene	1.33	1.17		mg/Kg		88	63 - 118
3,3'-Dichlorobenzidine	1.33	1.03		mg/Kg		78	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.35		mg/Kg		101	62 - 117
Di-n-octyl phthalate	1.33	1.36		mg/Kg		102	58 - 129
Benzo[b]fluoranthene	1.33	1.22		mg/Kg		91	61 - 123
Benzo[k]fluoranthene	1.33	1.19		mg/Kg		89	59 - 125
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.21		mg/Kg		90	50 - 149
Dibenz(a,h)anthracene	1.33	1.23		mg/Kg		92	61 - 134
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		93	55 - 134
3 & 4 Methylphenol	1.33	1.50		mg/Kg		112	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366455/2-A
Matrix: Solid
Analysis Batch: 366695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366455

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	108		40 - 130
Phenol-d5	106		36 - 123
Nitrobenzene-d5	95		33 - 124
2-Fluorobiphenyl	86		42 - 115
2,4,6-Tribromophenol	80		25 - 130
Terphenyl-d14	95		25 - 150

Lab Sample ID: 500-121566-1 MS
Matrix: Solid
Analysis Batch: 366664

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 366455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.17	F1	1.35	1.66	F1	mg/Kg	☼	122	55 - 118
Bis(2-chloroethyl)ether	<0.17	F1	1.35	1.62	F1	mg/Kg	☼	119	53 - 116
1,3-Dichlorobenzene	<0.17		1.35	1.22		mg/Kg	☼	90	56 - 110
1,4-Dichlorobenzene	<0.17		1.35	1.26		mg/Kg	☼	93	57 - 110
1,2-Dichlorobenzene	<0.17		1.35	1.23		mg/Kg	☼	91	56 - 110
2-Methylphenol	<0.17		1.35	1.50		mg/Kg	☼	111	53 - 123
2,2'-oxybis[1-chloropropane]	<0.17		1.35	1.29		mg/Kg	☼	95	22 - 133
N-Nitrosodi-n-propylamine	<0.069	F1	1.35	1.64	F1	mg/Kg	☼	121	56 - 119
Hexachloroethane	<0.17		1.35	0.934		mg/Kg	☼	69	54 - 111
2-Chlorophenol	<0.17		1.35	1.34		mg/Kg	☼	99	57 - 117
Nitrobenzene	<0.034		1.35	1.57		mg/Kg	☼	116	56 - 121
Bis(2-chloroethoxy)methane	<0.17		1.35	1.43		mg/Kg	☼	106	59 - 116
1,2,4-Trichlorobenzene	<0.17		1.35	1.21		mg/Kg	☼	90	60 - 116
Isophorone	<0.17		1.35	1.35		mg/Kg	☼	100	54 - 120
2,4-Dimethylphenol	<0.34		1.35	1.25		mg/Kg	☼	93	50 - 120
Hexachlorobutadiene	<0.17		1.35	1.15		mg/Kg	☼	85	56 - 120
Naphthalene	0.0065	J	1.35	1.26		mg/Kg	☼	93	58 - 116
2,4-Dichlorophenol	<0.34		1.35	1.25		mg/Kg	☼	92	61 - 116
4-Chloroaniline	<0.69		1.35	0.827		mg/Kg	☼	61	10 - 150
2,4,6-Trichlorophenol	<0.34		1.35	1.21		mg/Kg	☼	89	50 - 120
2,4,5-Trichlorophenol	<0.34		1.35	1.29		mg/Kg	☼	95	42 - 119
Hexachlorocyclopentadiene	<0.69	F1	1.35	<0.68	F1	mg/Kg	☼	0	10 - 116
2-Methylnaphthalene	<0.069		1.35	1.27		mg/Kg	☼	93	55 - 120
2-Nitroaniline	<0.17	F1	1.35	1.72	F1	mg/Kg	☼	127	52 - 121
2-Chloronaphthalene	<0.17		1.35	1.37		mg/Kg	☼	101	57 - 112
4-Chloro-3-methylphenol	<0.34		1.35	1.42		mg/Kg	☼	105	59 - 117
2,6-Dinitrotoluene	<0.17		1.35	1.29		mg/Kg	☼	95	57 - 118
2-Nitrophenol	<0.34		1.35	1.17		mg/Kg	☼	87	58 - 121
3-Nitroaniline	<0.34		1.35	1.10		mg/Kg	☼	81	20 - 144
Dimethyl phthalate	<0.17		1.35	1.32		mg/Kg	☼	97	60 - 112
2,4-Dinitrophenol	<0.69	F1	2.71	<0.68	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.034		1.35	1.27		mg/Kg	☼	94	57 - 116
2,4-Dinitrotoluene	<0.17		1.35	1.17		mg/Kg	☼	86	59 - 119
Acenaphthene	0.012	J	1.35	1.25		mg/Kg	☼	91	52 - 113
Dibenzofuran	<0.17		1.35	1.37		mg/Kg	☼	101	59 - 110
4-Nitrophenol	<0.69		2.71	2.43		mg/Kg	☼	90	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121566-1 MS

Matrix: Solid

Analysis Batch: 366664

Client Sample ID: 1314V3-33-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 366455

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	0.014	J	1.35	1.40		mg/Kg	☼	102		56 - 115
4-Nitroaniline	<0.34		1.35	1.82		mg/Kg	☼	135		55 - 146
4-Bromophenyl phenyl ether	<0.17		1.35	1.43		mg/Kg	☼	105		61 - 124
Hexachlorobenzene	<0.069		1.35	1.36		mg/Kg	☼	101		62 - 126
Diethyl phthalate	<0.17	F1	1.35	1.83	F1	mg/Kg	☼	135		58 - 117
4-Chlorophenyl phenyl ether	<0.17		1.35	1.41		mg/Kg	☼	104		61 - 111
Pentachlorophenol	<0.69	F1	2.71	<0.68	F1	mg/Kg	☼	0		12 - 116
N-Nitrosodiphenylamine	<0.17		1.35	1.51		mg/Kg	☼	111		62 - 117
4,6-Dinitro-2-methylphenol	<0.69	F1	2.71	<0.68	F1	mg/Kg	☼	0		10 - 110
Phenanthrene	0.19		1.35	1.44		mg/Kg	☼	92		58 - 125
Anthracene	0.041		1.35	1.35		mg/Kg	☼	97		57 - 118
Carbazole	<0.17		1.35	1.52		mg/Kg	☼	113		65 - 137
Di-n-butyl phthalate	<0.17		1.35	1.43		mg/Kg	☼	105		61 - 123
Fluoranthene	0.32	F1	1.35	1.08	F1	mg/Kg	☼	56		61 - 124
Pyrene	0.31	F1	1.35	2.72	E F1	mg/Kg	☼	179		60 - 115
Butyl benzyl phthalate	<0.17	F1	1.35	2.62	E F1	mg/Kg	☼	193		61 - 115
Benzo[a]anthracene	0.15		1.35	1.48		mg/Kg	☼	99		63 - 115
Chrysene	0.14		1.35	1.28		mg/Kg	☼	84		63 - 118
3,3'-Dichlorobenzidine	<0.17		1.35	0.672		mg/Kg	☼	50		40 - 110
Bis(2-ethylhexyl) phthalate	<0.17	F1	1.35	2.66	E F1	mg/Kg	☼	196		62 - 117
Di-n-octyl phthalate	<0.17	F1	1.35	0.552	F1	mg/Kg	☼	41		58 - 129
Benzo[b]fluoranthene	0.26		1.35	1.72		mg/Kg	☼	108		61 - 123
Benzo[k]fluoranthene	0.098		1.35	1.69		mg/Kg	☼	117		59 - 125
Benzo[a]pyrene	0.17		1.35	1.68		mg/Kg	☼	112		64 - 122
Indeno[1,2,3-cd]pyrene	0.061		1.35	1.17		mg/Kg	☼	82		50 - 149
Dibenz(a,h)anthracene	0.021	J	1.35	1.12		mg/Kg	☼	81		61 - 134
Benzo[g,h,i]perylene	0.056		1.35	1.16		mg/Kg	☼	82		55 - 134
3 & 4 Methylphenol	<0.17		1.35	1.53		mg/Kg	☼	113		55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	103		40 - 130
Phenol-d5	113		36 - 123
Nitrobenzene-d5	104		33 - 124
2-Fluorobiphenyl	98		42 - 115
2,4,6-Tribromophenol	80		25 - 130
Terphenyl-d14	208	X	25 - 150

Lab Sample ID: 500-121566-1 MSD

Matrix: Solid

Analysis Batch: 366664

Client Sample ID: 1314V3-33-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 366455

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.17	F1	1.39	1.69	F1	mg/Kg	☼	122		55 - 118	2	30
Bis(2-chloroethyl)ether	<0.17	F1	1.39	1.38		mg/Kg	☼	99		53 - 116	16	30
1,3-Dichlorobenzene	<0.17		1.39	1.18		mg/Kg	☼	85		56 - 110	4	30
1,4-Dichlorobenzene	<0.17		1.39	1.22		mg/Kg	☼	88		57 - 110	4	30
1,2-Dichlorobenzene	<0.17		1.39	1.18		mg/Kg	☼	85		56 - 110	4	30
2-Methylphenol	<0.17		1.39	1.56		mg/Kg	☼	113		53 - 123	4	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121566-1 MSD

Matrix: Solid

Analysis Batch: 366664

Client Sample ID: 1314V3-33-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 366455

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.17		1.39	1.27		mg/Kg	☼	92	22 - 133	1	30
N-Nitrosodi-n-propylamine	<0.069	F1	1.39	1.56		mg/Kg	☼	113	56 - 119	5	30
Hexachloroethane	<0.17		1.39	0.883		mg/Kg	☼	64	54 - 111	6	30
2-Chlorophenol	<0.17		1.39	1.32		mg/Kg	☼	95	57 - 117	1	30
Nitrobenzene	<0.034		1.39	1.54		mg/Kg	☼	111	56 - 121	2	30
Bis(2-chloroethoxy)methane	<0.17		1.39	1.42		mg/Kg	☼	103	59 - 116	1	30
1,2,4-Trichlorobenzene	<0.17		1.39	1.23		mg/Kg	☼	89	60 - 116	2	30
Isophorone	<0.17		1.39	1.36		mg/Kg	☼	98	54 - 120	1	30
2,4-Dimethylphenol	<0.34		1.39	1.24		mg/Kg	☼	90	50 - 120	1	30
Hexachlorobutadiene	<0.17		1.39	1.17		mg/Kg	☼	84	56 - 120	2	30
Naphthalene	0.0065	J	1.39	1.26		mg/Kg	☼	90	58 - 116	0	30
2,4-Dichlorophenol	<0.34		1.39	1.27		mg/Kg	☼	92	61 - 116	2	30
4-Chloroaniline	<0.69		1.39	0.828		mg/Kg	☼	60	10 - 150	0	30
2,4,6-Trichlorophenol	<0.34		1.39	1.21		mg/Kg	☼	87	50 - 120	0	30
2,4,5-Trichlorophenol	<0.34		1.39	1.26		mg/Kg	☼	91	42 - 119	2	30
Hexachlorocyclopentadiene	<0.69	F1	1.39	<0.70	F1	mg/Kg	☼	0	10 - 116	NC	30
2-Methylnaphthalene	<0.069		1.39	1.27		mg/Kg	☼	92	55 - 120	0	30
2-Nitroaniline	<0.17	F1	1.39	1.60		mg/Kg	☼	115	52 - 121	7	30
2-Chloronaphthalene	<0.17		1.39	1.33		mg/Kg	☼	96	57 - 112	3	30
4-Chloro-3-methylphenol	<0.34		1.39	1.43		mg/Kg	☼	103	59 - 117	1	30
2,6-Dinitrotoluene	<0.17		1.39	1.25		mg/Kg	☼	90	57 - 118	3	30
2-Nitrophenol	<0.34		1.39	1.19		mg/Kg	☼	86	58 - 121	2	30
3-Nitroaniline	<0.34		1.39	1.11		mg/Kg	☼	80	20 - 144	1	30
Dimethyl phthalate	<0.17		1.39	1.25		mg/Kg	☼	90	60 - 112	5	30
2,4-Dinitrophenol	<0.69	F1	2.77	<0.70	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.034		1.39	1.26		mg/Kg	☼	91	57 - 116	1	30
2,4-Dinitrotoluene	<0.17		1.39	1.11		mg/Kg	☼	80	59 - 119	5	30
Acenaphthene	0.012	J	1.39	1.21		mg/Kg	☼	86	52 - 113	3	30
Dibenzofuran	<0.17		1.39	1.30		mg/Kg	☼	94	59 - 110	5	30
4-Nitrophenol	<0.69		2.77	2.37		mg/Kg	☼	85	32 - 123	3	30
Fluorene	0.014	J	1.39	1.29		mg/Kg	☼	92	56 - 115	8	30
4-Nitroaniline	<0.34		1.39	1.69		mg/Kg	☼	122	55 - 146	8	30
4-Bromophenyl phenyl ether	<0.17		1.39	1.40		mg/Kg	☼	101	61 - 124	2	30
Hexachlorobenzene	<0.069		1.39	1.34		mg/Kg	☼	97	62 - 126	2	30
Diethyl phthalate	<0.17	F1	1.39	1.58		mg/Kg	☼	114	58 - 117	14	30
4-Chlorophenyl phenyl ether	<0.17		1.39	1.30		mg/Kg	☼	94	61 - 111	8	30
Pentachlorophenol	<0.69	F1	2.77	<0.70	F1	mg/Kg	☼	0	12 - 116	NC	30
N-Nitrosodiphenylamine	<0.17		1.39	1.47		mg/Kg	☼	106	62 - 117	2	30
4,6-Dinitro-2-methylphenol	<0.69	F1	2.77	<0.70	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.19		1.39	1.38		mg/Kg	☼	86	58 - 125	4	30
Anthracene	0.041		1.39	1.33		mg/Kg	☼	93	57 - 118	2	30
Carbazole	<0.17		1.39	1.47		mg/Kg	☼	106	65 - 137	4	30
Di-n-butyl phthalate	<0.17		1.39	1.42		mg/Kg	☼	102	61 - 123	0	30
Fluoranthene	0.32	F1	1.39	1.06	F1	mg/Kg	☼	53	61 - 124	2	30
Pyrene	0.31	F1	1.39	2.58	E F1	mg/Kg	☼	164	60 - 115	6	30
Butyl benzyl phthalate	<0.17	F1	1.39	2.66	E F1	mg/Kg	☼	192	61 - 115	2	30
Benzo[a]anthracene	0.15		1.39	1.47		mg/Kg	☼	96	63 - 115	0	30
Chrysene	0.14		1.39	1.26		mg/Kg	☼	80	63 - 118	1	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121566-1 MSD
Matrix: Solid
Analysis Batch: 366664

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 366455

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
3,3'-Dichlorobenzidine	<0.17		1.39	0.764		mg/Kg	☼	55	40 - 110	13	30	
Bis(2-ethylhexyl) phthalate	<0.17	F1	1.39	2.65	E F1	mg/Kg	☼	191	62 - 117	0	30	
Di-n-octyl phthalate	<0.17	F1	1.39	0.552	F1	mg/Kg	☼	40	58 - 129	0	30	
Benzo[b]fluoranthene	0.26		1.39	1.71		mg/Kg	☼	104	61 - 123	1	30	
Benzo[k]fluoranthene	0.098		1.39	1.59		mg/Kg	☼	107	59 - 125	6	30	
Benzo[a]pyrene	0.17		1.39	1.68		mg/Kg	☼	109	64 - 122	0	30	
Indeno[1,2,3-cd]pyrene	0.061		1.39	1.19		mg/Kg	☼	81	50 - 149	2	30	
Dibenz(a,h)anthracene	0.021	J	1.39	1.14		mg/Kg	☼	81	61 - 134	2	30	
Benzo[g,h,i]perylene	0.056		1.39	1.21		mg/Kg	☼	83	55 - 134	5	30	
3 & 4 Methylphenol	<0.17		1.39	1.43		mg/Kg	☼	103	55 - 124	7	30	
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
2-Fluorophenol	98		40 - 130									
Phenol-d5	111		36 - 123									
Nitrobenzene-d5	99		33 - 124									
2-Fluorobiphenyl	89		42 - 115									
2,4,6-Tribromophenol	77		25 - 130									
Terphenyl-d14	199	X	25 - 150									

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-366368/2-A
Matrix: Solid
Analysis Batch: 366692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366368

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Barium	0.500	0.482	J	mg/L		96	80 - 120	
Beryllium	0.0500	0.0474		mg/L		95	80 - 120	
Boron	1.00	0.876		mg/L		88	80 - 120	
Cadmium	0.0500	0.0462		mg/L		92	80 - 120	
Chromium	0.200	0.198		mg/L		99	80 - 120	
Cobalt	0.500	0.481		mg/L		96	80 - 120	
Iron	1.00	1.03		mg/L		103	80 - 120	
Lead	0.100	0.0976		mg/L		98	80 - 120	
Manganese	0.500	0.482		mg/L		96	80 - 120	
Nickel	0.500	0.478		mg/L		96	80 - 120	
Selenium	0.100	0.0861		mg/L		86	80 - 120	
Silver	0.0500	0.0468		mg/L		94	80 - 120	
Zinc	0.500	0.471	J	mg/L		94	80 - 120	

Lab Sample ID: MB 500-366379/1-A
Matrix: Solid
Analysis Batch: 367012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366379

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Barium	<1.0		1.0	0.18	mg/Kg		12/22/16 14:34	12/28/16 17:29	1

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-366379/1-A
Matrix: Solid
Analysis Batch: 367012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40	0.087	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Boron	<5.0		5.0	0.70	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Calcium	<20		20	6.4	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Chromium	0.369	J	1.0	0.17	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Copper	<1.0		1.0	0.22	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Iron	14.9	J	20	7.7	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Lead	<0.50		0.50	0.25	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Magnesium	4.66	J	10	4.1	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Potassium	<50		50	8.2	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Silver	<0.50		0.50	0.12	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Sodium	15.0	J	100	13	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/22/16 14:34	12/28/16 17:29	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/22/16 14:34	12/28/16 17:29	1

Lab Sample ID: LCS 500-366379/2-A
Matrix: Solid
Analysis Batch: 367012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.28		mg/Kg		93	80 - 120
Barium	200	183		mg/Kg		92	80 - 120
Beryllium	5.00	4.58		mg/Kg		92	80 - 120
Boron	100	82.6		mg/Kg		83	80 - 120
Cadmium	5.00	4.53		mg/Kg		91	80 - 120
Calcium	1000	938		mg/Kg		94	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Cobalt	50.0	46.4		mg/Kg		93	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	9.67		mg/Kg		97	80 - 120
Magnesium	1000	891		mg/Kg		89	80 - 120
Manganese	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	907		mg/Kg		91	80 - 120
Selenium	10.0	8.61		mg/Kg		86	80 - 120
Silver	5.00	4.42		mg/Kg		88	80 - 120
Sodium	1000	938		mg/Kg		94	80 - 120
Thallium	10.0	8.94		mg/Kg		89	80 - 120
Vanadium	50.0	47.9		mg/Kg		96	80 - 120
Zinc	50.0	45.3		mg/Kg		91	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121566-1 MS

Matrix: Solid

Analysis Batch: 367012

Client Sample ID: 1314V3-33-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 366379

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<1.0	F1	24.9	7.24	F1	mg/Kg	☼	29	75 - 125
Arsenic	2.0		4.99	6.41		mg/Kg	☼	88	75 - 125
Barium	26		99.7	113		mg/Kg	☼	86	75 - 125
Beryllium	0.20	J	2.49	2.32		mg/Kg	☼	85	75 - 125
Boron	1.1	J F1	49.9	35.9	F1	mg/Kg	☼	70	75 - 125
Cadmium	0.14		2.49	2.06		mg/Kg	☼	77	75 - 125
Calcium	7800		499	7510	4	mg/Kg	☼	-48	75 - 125
Chromium	6.3	B	9.97	16.3		mg/Kg	☼	100	75 - 125
Cobalt	4.1		24.9	27.3		mg/Kg	☼	93	75 - 125
Copper	6.4		12.5	17.7		mg/Kg	☼	91	75 - 125
Iron	7000	B	49.9	7980	4	mg/Kg	☼	2060	75 - 125
Lead	20		4.99	28.8	4	mg/Kg	☼	176	75 - 125
Magnesium	2900	B	499	3580	4	mg/Kg	☼	140	75 - 125
Manganese	210		24.9	215	4	mg/Kg	☼	36	75 - 125
Nickel	9.9		24.9	33.4		mg/Kg	☼	94	75 - 125
Potassium	260		499	868		mg/Kg	☼	121	75 - 125
Selenium	0.30	J F1	4.99	3.74	F1	mg/Kg	☼	69	75 - 125
Silver	<0.26		2.49	1.88		mg/Kg	☼	76	75 - 125
Sodium	85	B	499	518		mg/Kg	☼	87	75 - 125
Thallium	<0.51		4.99	4.02		mg/Kg	☼	81	75 - 125
Vanadium	10		24.9	33.9		mg/Kg	☼	94	75 - 125
Zinc	25		24.9	54.0		mg/Kg	☼	114	75 - 125

Lab Sample ID: 500-121566-1 MSD

Matrix: Solid

Analysis Batch: 367012

Client Sample ID: 1314V3-33-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 366379

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	<1.0	F1	25.4	8.48	F1	mg/Kg	☼	33	75 - 125	16	20
Arsenic	2.0		5.07	6.45		mg/Kg	☼	87	75 - 125	1	20
Barium	26		101	110		mg/Kg	☼	83	75 - 125	2	20
Beryllium	0.20	J	2.54	2.36		mg/Kg	☼	85	75 - 125	2	20
Boron	1.1	J F1	50.7	37.4	F1	mg/Kg	☼	72	75 - 125	4	20
Cadmium	0.14		2.54	2.17		mg/Kg	☼	80	75 - 125	5	20
Calcium	7800		507	7900	4	mg/Kg	☼	30	75 - 125	5	20
Chromium	6.3	B	10.1	17.2		mg/Kg	☼	107	75 - 125	5	20
Cobalt	4.1		25.4	28.2		mg/Kg	☼	95	75 - 125	4	20
Copper	6.4		12.7	17.6		mg/Kg	☼	89	75 - 125	1	20
Iron	7000	B	50.7	7920	4	mg/Kg	☼	1902	75 - 125	1	20
Lead	20		5.07	24.9		mg/Kg	☼	95	75 - 125	15	20
Magnesium	2900	B	507	3840	4	mg/Kg	☼	188	75 - 125	7	20
Manganese	210		25.4	213	4	mg/Kg	☼	25	75 - 125	1	20
Nickel	9.9		25.4	35.1		mg/Kg	☼	99	75 - 125	5	20
Potassium	260		507	825		mg/Kg	☼	110	75 - 125	5	20
Selenium	0.30	J F1	5.07	3.93	F1	mg/Kg	☼	71	75 - 125	5	20
Silver	<0.26		2.54	1.98		mg/Kg	☼	78	75 - 125	5	20
Sodium	85	B	507	525		mg/Kg	☼	87	75 - 125	1	20
Thallium	<0.51		5.07	4.44		mg/Kg	☼	88	75 - 125	10	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-121566-1 MSD
Matrix: Solid
Analysis Batch: 367012

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 366379
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Vanadium	10		25.4	35.2		mg/Kg	☼	98	75 - 125	4	20
Zinc	25		25.4	51.2		mg/Kg	☼	101	75 - 125	5	20

Lab Sample ID: 500-121566-1 DU
Matrix: Solid
Analysis Batch: 367012

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 366379
RPD Limit

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<1.0	F1	0.301	J	mg/Kg	☼	NC	20
Arsenic	2.0		2.10		mg/Kg	☼	3	20
Barium	26		49.1	F3	mg/Kg	☼	60	20
Beryllium	0.20	J	0.191	J	mg/Kg	☼	5	20
Boron	1.1	J F1	1.05	J	mg/Kg	☼	1	20
Cadmium	0.14		0.139		mg/Kg	☼	2	20
Calcium	7800		12300	F3	mg/Kg	☼	46	20
Chromium	6.3	B	7.08		mg/Kg	☼	11	20
Cobalt	4.1		4.56		mg/Kg	☼	11	20
Copper	6.4		6.95		mg/Kg	☼	9	20
Iron	7000	B	6840		mg/Kg	☼	2	20
Lead	20		25.0	F3	mg/Kg	☼	22	20
Magnesium	2900	B	2760		mg/Kg	☼	4	20
Manganese	210		422	F3	mg/Kg	☼	69	20
Nickel	9.9		12.5	F3	mg/Kg	☼	23	20
Potassium	260		259		mg/Kg	☼	2	20
Selenium	0.30	J F1	<0.50		mg/Kg	☼	NC	20
Silver	<0.26		<0.25		mg/Kg	☼	NC	20
Sodium	85	B	79.6		mg/Kg	☼	7	20
Thallium	<0.51		<0.50		mg/Kg	☼	NC	20
Vanadium	10		10.8		mg/Kg	☼	4	20
Zinc	25		26.8		mg/Kg	☼	5	20

Lab Sample ID: LCS 500-366571/2-A
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366571
%Rec. RPD

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0470		mg/L		94	80 - 120
Lead	0.100	0.0955		mg/L		95	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120

Lab Sample ID: LB 500-366180/1-D
Matrix: Solid
Analysis Batch: 366692

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366368
Dil Fac

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/22/16 13:48	12/23/16 15:54	1
Boron	<0.50		0.50	0.050	mg/L		12/22/16 13:48	12/23/16 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/22/16 13:48	12/23/16 15:54	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-366180/1-D
Matrix: Solid
Analysis Batch: 366692

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366368

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 15:54	1
Cobalt	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 15:54	1
Iron	<0.40		0.40	0.20	mg/L		12/22/16 13:48	12/23/16 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/22/16 13:48	12/23/16 15:54	1
Manganese	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		12/22/16 13:48	12/23/16 15:54	1
Silver	<0.025		0.025	0.010	mg/L		12/22/16 13:48	12/23/16 15:54	1
Zinc	<0.50		0.50	0.020	mg/L		12/22/16 13:48	12/23/16 15:54	1

Lab Sample ID: 500-121566-14 MS
Matrix: Solid
Analysis Batch: 366692

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: TCLP
Prep Batch: 366368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.65		0.500	1.13		mg/L		95	50 - 150
Beryllium	<0.0040		0.0500	0.0475		mg/L		95	50 - 150
Boron	0.084	J	1.00	0.903		mg/L		82	50 - 150
Cadmium	0.0020	J	0.0500	0.0510		mg/L		98	50 - 150
Chromium	<0.025		0.200	0.194		mg/L		97	50 - 150
Cobalt	<0.025		0.500	0.499		mg/L		100	50 - 150
Iron	<0.40		1.00	1.00		mg/L		100	50 - 150
Lead	<0.0075		0.100	0.103		mg/L		103	50 - 150
Manganese	0.26		0.500	0.714		mg/L		90	50 - 150
Nickel	<0.025		0.500	0.494		mg/L		99	50 - 150
Selenium	<0.050		0.100	0.110		mg/L		110	50 - 150
Silver	<0.025		0.0500	0.0545		mg/L		109	50 - 150
Zinc	<0.50		0.500	0.504		mg/L		101	50 - 150

Lab Sample ID: 500-121566-14 DU
Matrix: Solid
Analysis Batch: 366692

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: TCLP
Prep Batch: 366368

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit	
			Result	Qualifier				RPD	Limit
Barium	0.65		0.660		mg/L		1	20	
Beryllium	<0.0040		<0.0040		mg/L		NC	20	
Boron	0.084	J	0.0844	J	mg/L		1	20	
Cadmium	0.0020	J	0.00209	J	mg/L		2	20	
Chromium	<0.025		<0.025		mg/L		NC	20	
Cobalt	<0.025		<0.025		mg/L		NC	20	
Iron	<0.40		<0.40		mg/L		NC	20	
Lead	<0.0075		<0.0075		mg/L		NC	20	
Manganese	0.26		0.264		mg/L		0.4	20	
Nickel	<0.025		<0.025		mg/L		NC	20	
Selenium	<0.050		<0.050		mg/L		NC	20	
Silver	<0.025		<0.025		mg/L		NC	20	
Zinc	<0.50		<0.50		mg/L		NC	20	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-366333/1-B
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 366571

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/23/16 14:24	12/28/16 02:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/23/16 14:24	12/28/16 02:45	1
Manganese	<0.025		0.025	0.010	mg/L		12/23/16 14:24	12/28/16 02:45	1

Lab Sample ID: 500-121566-14 MS
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: SPLP East
Prep Batch: 366571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.076		0.500	0.613		mg/L		107	50 - 150

Lab Sample ID: 500-121566-14 DU
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: SPLP East
Prep Batch: 366571

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.076		0.0763		mg/L		0.3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-366368/2-A
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.462		mg/L		92	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LB 500-366180/1-C
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366368

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/22/16 13:48	12/23/16 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/22/16 13:48	12/23/16 14:43	1

Lab Sample ID: 500-121566-14 MS
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: TCLP
Prep Batch: 366368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.460		mg/L		92	50 - 150
Thallium	<0.0020		0.100	0.107		mg/L		107	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-121566-14 DU
Matrix: Solid
Analysis Batch: 366689

Client Sample ID: 1314V3-33-B06 (6-12)
Prep Type: TCLP
Prep Batch: 366368

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-366353/12-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 10:48	1

Lab Sample ID: LCS 500-366353/13-A
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366353
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

Lab Sample ID: LB 500-366180/1-B
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366353

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/22/16 14:30	12/23/16 10:58	1

Lab Sample ID: 500-121566-1 MS
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: TCLP
Prep Batch: 366353
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000827		mg/L		83	50 - 150

Lab Sample ID: 500-121566-1 DU
Matrix: Solid
Analysis Batch: 366539

Client Sample ID: 1314V3-33-B02 (0-5)
Prep Type: TCLP
Prep Batch: 366353

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-366137/12-A
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/21/16 14:45	12/22/16 09:35	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-366137/13-A
 Matrix: Solid
 Analysis Batch: 366345

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 366137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.158		mg/Kg		94	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-121566-11 DU
 Matrix: Solid
 Analysis Batch: 366858

Client Sample ID: 1314V3-33-B04 (0-6)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.8		8.8		SU		0.3	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 02:59	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:22	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 14:50	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581		SMO	TAL CHI
					(Start)	12/23/16 17:45		
					(End)	12/23/16 18:30		
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B02 (0-5)

Lab Sample ID: 500-121566-1

Date Collected: 12/15/16 08:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 17:54	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 15:03	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:05	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 09:48	MJD	TAL CHI

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 03:21	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:27	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366689	12/23/16 14:53	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B02 (5-9.4)

Lab Sample ID: 500-121566-2

Date Collected: 12/15/16 08:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 18:19	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 12:33	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:25	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 09:50	MJD	TAL CHI

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 03:28	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:32	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 14:57	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B07 (0-8)

Lab Sample ID: 500-121566-3

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 18:45	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 12:58	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:30	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 09:52	MJD	TAL CHI

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 03:35	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:48	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:00	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:12	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B07 (0-8)D

Lab Sample ID: 500-121566-4

Date Collected: 12/15/16 08:50

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 19:10	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 15:28	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:34	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 09:54	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 03:42	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:53	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:04	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B01 (0-6)

Lab Sample ID: 500-121566-5

Date Collected: 12/15/16 09:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 19:36	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 15:53	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:51	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:01	MJD	TAL CHI

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 03:48	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 16:58	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366689	12/23/16 15:07	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B01 (6-12)

Lab Sample ID: 500-121566-6

Date Collected: 12/15/16 09:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 20:01	JMP	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 13:23	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 18:55	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:04	MJD	TAL CHI

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:02	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:11	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B03 (0-6)

Lab Sample ID: 500-121566-7

Date Collected: 12/15/16 09:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 20:27	JMP	TAL CHI
Total/NA	Prep	3541	DL		366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D	DL	20	367001	12/29/16 11:26	AJD	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 16:43	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:00	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:06	MJD	TAL CHI

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:07	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:14	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B03 (6-12)

Lab Sample ID: 500-121566-8

Date Collected: 12/15/16 09:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 14:48	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 13:48	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:04	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:09	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:12	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:24	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:45 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B05 (0-6)

Lab Sample ID: 500-121566-9

Date Collected: 12/15/16 10:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 15:13	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 14:13	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:09	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:10	MJD	TAL CHI

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:15	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:17	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366689	12/23/16 15:28	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366581	(Start) 12/23/16 17:55 (End) 12/23/16 18:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B05 (6-12)

Lab Sample ID: 500-121566-10

Date Collected: 12/15/16 10:20

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			366654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 15:39	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366664	12/27/16 14:38	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:13	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:13	MJD	TAL CHI

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:22	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:21	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:31	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 11:50 (End) 12/27/16 11:58	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B04 (0-6)

Lab Sample ID: 500-121566-11

Date Collected: 12/15/16 10:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 16:04	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366869	12/28/16 20:15	AJD	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:17	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:15	MJD	TAL CHI

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:45	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:26	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:34	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:06 (End) 12/27/16 12:15	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B04 (6-12)

Lab Sample ID: 500-121566-12

Date Collected: 12/15/16 11:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 16:30	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366695	12/27/16 15:42	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:22	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:17	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:52	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:31	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6020A		1	366689	12/23/16 15:38	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:28	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:15 (End) 12/27/16 12:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B06 (0-6)

Lab Sample ID: 500-121566-13

Date Collected: 12/15/16 11:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 16:55	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366695	12/27/16 16:11	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:27	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:19	MJD	TAL CHI

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366333	12/22/16 10:53	RMP	TAL CHI
SPLP East	Prep	3010A			366571	12/23/16 14:24	JNH	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 04:58	PJ1	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI
TCLP	Analysis	6010B		1	366692	12/23/16 17:43	KML	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	3010A			366368	12/22/16 13:48	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366689	12/23/16 15:41	PFK	TAL CHI
TCLP	Leach	1311			366180	12/21/16 15:20	RMP	TAL CHI
TCLP	Prep	7470A			366353	12/22/16 14:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366539	12/23/16 11:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:23 (End) 12/27/16 12:32	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365937	12/20/16 12:08	LWN	TAL CHI

Client Sample ID: 1314V3-33-B06 (6-12)

Lab Sample ID: 500-121566-14

Date Collected: 12/15/16 11:45

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365654	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 17:20	BDW	TAL CHI
Total/NA	Prep	3541			366455	12/23/16 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	366695	12/27/16 16:40	GES	TAL CHI
Total/NA	Prep	3050B			366379	12/22/16 14:34	JNH	TAL CHI
Total/NA	Analysis	6010B		1	367012	12/28/16 19:31	PJ1	TAL CHI
Total/NA	Prep	7471B			366137	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:22	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121566-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-121566 COC

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#Reference# _____

Chain of Custody Record

Lab Job #: 500-121566
Chain of Custody Number: EE46-41
Page _____ of _____
Temperature °C of Cooler: 13

Client		Client Project #		Preservative		Parameter												Preservative Key	
EE		1009008-0046-01																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		Matrix												Comments	
IT4		50012744																	
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix									
Rock Island County IL		P. Wright																	
Sampler		Sample ID		Date		Time		# of Containers		Matrix									
S. Cooper																			
1		1314V3-33-B02 (0-5)		12-15-16	0915	2	5	X	X	X	X	X							
2		1314V3-33-B02 (5-9.4)		12-15-16	0820	2	5	X	X	X	X	X							
3		1314V3-33-B07 (0-4)		12-15-16	0850	2	5	X	X	X	X	X							
4		1314V3-33-B07 (0-4) D		12-14-16	0850	2	5	X	X	X	X	X							
5		1314V3-33-B01 (0-6)		12-15-16	0910	2	5	X	X	X	X	X							
6		1314V3-33-B01 (6-12)		12-15-16	0915	2	5	X	X	X	X	X							
7		1314V3-33-B03 (0-6)		12-11-16	0940	2	5	X	X	X	X	X							
8		1314V3-33-B03 (6-12)		12-15-16	0945	2	5	X	X	X	X	X							
9		1314V3-33-B05 (0-6)		12-15-16	1015	2	5	X	X	X	X	X							
10		1314V3-33-B05 (6-12)		12-15-16	1020	2	5	X	X	X	X	X							

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>EE</u>	Company: <u>EE</u>	Date: <u>12-14-16</u>	Time: <u>1100</u>	Received By: <u>Shirley...</u>	Company: <u>TA-CHE</u>	Date: <u>12/16/16</u>	Time: <u>0940</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <u>FEDEX</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-121506

Chain of Custody Number: E846-42

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
EE		1009008 004601									
I 74		5002744									
Lock Island (cont), IL		D. Wright									
S Cooper											
11		1314V3-33-B04(0-6)	12/5/16	1055	2 S	X	X	X	X	X	
12		1314V3-33-B04(6-12)	12/5/16	1100	2 S	X	X	X	X	X	
13		1314V3-33-B06(0-6)	12/5/16	1140	2 S	X	X	X	X	X	
14		1314V3-33-B06(6-12)	12/5/16	1145	2 S	X	X	X	X	X	
12/15/16											

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	EE	12/5/16	1100	<i>[Signature]</i>	STA-CHE	12/16/16	0940
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121566-1

Login Number: 121566

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-121567-1
Client Project/Site: IDOT - I-74 - WO 046

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
12/29/2016 3:06:05 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Job ID: 500-121567-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-121567-1**

Comments

No additional comments.

Receipt

The samples were received on 12/16/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-366823 and analytical batch 500-366915 recovered outside control limits for the following analytes: 4-Nitroaniline and Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: (LCS 500-366823/2-A). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.010	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.23		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.046		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.51		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.40		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.30		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.038	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	99		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	6.2		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	53	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	190		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.065	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.27	F1	0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.062		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.013	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3) (Continued)

Lab Sample ID: 500-121567-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.096		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.099		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.064		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.8		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	4.9		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	42000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.2		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.98		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.19		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0087	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	2.6		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6) (Continued)

Lab Sample ID: 500-121567-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2200		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	970		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	900		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.11		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.35	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	4.2		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.8		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.4		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8700		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.021		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0087	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0093	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	0.98	0.20	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6) (Continued)

Lab Sample ID: 500-121567-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.5	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.041	J	0.098	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	4500		9.8	3.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	900		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.82		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.60		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0087	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	7.1		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	800		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12) (Continued)

Lab Sample ID: 500-121567-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	32		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.023	J	0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	0.94	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.9		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.47	0.086	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J	2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Calcium	9500		9.4	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.7	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.8		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	7.5		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	8600		9.4	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	7.7		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	230		0.47	0.093	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.1		0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	480		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	23		0.94	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.053	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (6-12) (Continued)

Lab Sample ID: 500-121567-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.090	J	0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.4	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	8.9		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	5.2		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8800		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	530		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	300		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	23		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.2		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	3.9		3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Calcium	5200		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.3		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	970		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	730		62	8.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.62	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6) (Continued)

Lab Sample ID: 500-121567-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	39		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.080	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.6		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	5.7		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	810		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.93		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	28		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.82		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.59	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121567-1	1314V3-32-B06 (0-3)	Solid	12/15/16 13:25	12/16/16 09:40
500-121567-2	1314V3-32-B05 (0-3)	Solid	12/15/16 13:40	12/16/16 09:40
500-121567-3	1314V3-32-B04 (0-6)	Solid	12/15/16 14:10	12/16/16 09:40
500-121567-4	1314V3-32-B04 (6-12)	Solid	12/15/16 14:15	12/16/16 09:40
500-121567-5	1314V3-32-B01 (0-6)	Solid	12/15/16 14:35	12/16/16 09:40
500-121567-6	1314V3-32-B01 (6-12)	Solid	12/15/16 14:40	12/16/16 09:40
500-121567-7	1314V3-32-B03 (0-6)	Solid	12/15/16 15:10	12/16/16 09:40
500-121567-8	1314V3-32-B03 (6-12)	Solid	12/15/16 15:15	12/16/16 09:40
500-121567-9	1314V3-32-B02 (0-6)	Solid	12/15/16 15:55	12/16/16 09:40
500-121567-10	1314V3-32-B02 (6-12)	Solid	12/15/16 16:00	12/16/16 09:40



Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/16/16 14:45	12/20/16 19:07	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/20/16 19:07	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134	12/16/16 14:45	12/20/16 19:07	1
Toluene-d8 (Surr)	110		75 - 123	12/16/16 14:45	12/20/16 19:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Nitrophenol	<0.81	F2	0.81	0.38	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Fluorene	0.010	J	0.040	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Nitroaniline	<0.40	* F1	0.40	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Pentachlorophenol	<0.81	F2	0.81	0.64	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Phenanthrene	0.23		0.040	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Anthracene	0.046		0.040	0.0067	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Fluoranthene	0.51		0.040	0.0074	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Pyrene	0.40		0.040	0.0080	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.25		0.040	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Benzo[b]fluoranthene	0.30		0.040	0.0087	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Benzo[k]fluoranthene	0.11		0.040	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Benzo[a]pyrene	0.20		0.040	0.0078	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Dibenz(a,h)anthracene	0.038	J	0.040	0.0078	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Benzo[g,h,i]perylene	0.12		0.040	0.013	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130				12/28/16 07:19	12/28/16 23:29	1
Phenol-d5	57		36 - 123				12/28/16 07:19	12/28/16 23:29	1
Nitrobenzene-d5	72		33 - 124				12/28/16 07:19	12/28/16 23:29	1
2-Fluorobiphenyl	76		42 - 115				12/28/16 07:19	12/28/16 23:29	1
2,4,6-Tribromophenol	75		25 - 130				12/28/16 07:19	12/28/16 23:29	1
Terphenyl-d14	101		25 - 150				12/28/16 07:19	12/28/16 23:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.2	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Arsenic	3.9		0.59	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Barium	99		0.59	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Beryllium	0.62		0.24	0.051	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Boron	6.2		3.0	0.41	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Cadmium	0.22		0.12	0.034	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Calcium	11000		12	3.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Chromium	53	B	0.59	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Cobalt	6.9		0.30	0.067	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Copper	14		0.59	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Iron	15000		12	4.6	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Lead	190		0.30	0.15	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Magnesium	2700		5.9	2.4	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Manganese	400		0.59	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Nickel	13		0.59	0.16	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Potassium	1000		30	4.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Selenium	0.63		0.59	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Sodium	840		59	7.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Thallium	1.2		0.59	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Vanadium	20		0.30	0.087	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1
Zinc	76		1.2	0.38	mg/Kg	☼	12/21/16 08:13	12/24/16 00:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:35	1
Boron	0.081	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0025	J	0.0050	0.0020	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Cobalt	<0.025		0.025	0.010	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Iron	<0.40		0.40	0.20	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Manganese	1.0		0.025	0.010	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Nickel	<0.025		0.025	0.010	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Silver	<0.025		0.025	0.010	mg/L	-	12/27/16 08:29	12/28/16 12:35	1
Zinc	0.065	J	0.50	0.020	mg/L	-	12/27/16 08:29	12/28/16 12:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.53		0.025	0.010	mg/L	-	12/27/16 08:26	12/28/16 05:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	12/27/16 08:29	12/27/16 22:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	12/27/16 08:29	12/27/16 22:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	12/27/16 11:30	12/28/16 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27	F1	0.020	0.011	mg/Kg	☼	12/21/16 14:45	12/22/16 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU	-		12/27/16 12:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/16/16 14:45	12/20/16 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	12/16/16 14:45	12/20/16 19:32	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/20/16 19:32	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134	12/16/16 14:45	12/20/16 19:32	1
Toluene-d8 (Surr)	110		75 - 123	12/16/16 14:45	12/20/16 19:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Nitroaniline	<0.38 *		0.38	0.16	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Phenanthrene	0.062		0.038	0.0053	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Anthracene	0.013 J		0.038	0.0063	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Carbazole	<0.19 *		0.19	0.095	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Fluoranthene	0.16		0.038	0.0070	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Pyrene	0.16		0.038	0.0075	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Benzo[a]anthracene	0.096		0.038	0.0051	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.038	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Benzo[b]fluoranthene	0.14		0.038	0.0082	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Benzo[k]fluoranthene	0.033	J	0.038	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Benzo[a]pyrene	0.099		0.038	0.0074	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Indeno[1,2,3-cd]pyrene	0.052		0.038	0.0098	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
Benzo[g,h,i]perylene	0.064		0.038	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/28/16 07:19	12/28/16 23:04	1
Phenol-d5	67		36 - 123	12/28/16 07:19	12/28/16 23:04	1
Nitrobenzene-d5	77		33 - 124	12/28/16 07:19	12/28/16 23:04	1
2-Fluorobiphenyl	79		42 - 115	12/28/16 07:19	12/28/16 23:04	1
2,4,6-Tribromophenol	55		25 - 130	12/28/16 07:19	12/28/16 23:04	1
Terphenyl-d14	109		25 - 150	12/28/16 07:19	12/28/16 23:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Arsenic	3.8		0.54	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Barium	67		0.54	0.099	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Beryllium	0.57		0.22	0.047	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Boron	4.9		2.7	0.38	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Cadmium	0.12		0.11	0.031	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Calcium	42000		11	3.5	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Chromium	13	B	0.54	0.093	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Cobalt	4.2		0.27	0.061	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Copper	19		0.54	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Iron	13000		11	4.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Lead	29		0.27	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Magnesium	14000		5.4	2.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Manganese	320		0.54	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Nickel	11		0.54	0.15	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Potassium	1200		27	4.4	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Selenium	0.27	J	0.54	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Sodium	530		54	7.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Thallium	0.98		0.54	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Vanadium	19		0.27	0.079	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1
Zinc	64		1.1	0.34	mg/Kg	☼	12/21/16 08:13	12/24/16 00:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:40	1
Boron	0.062	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 12:40	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:40	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:40	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 12:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 12:40	1
Manganese	0.67		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:40	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:40	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 12:40	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:40	1
Zinc	0.036	J	0.50	0.020	mg/L		12/27/16 08:29	12/28/16 12:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 05:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 22:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 22:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.017	0.0090	mg/Kg	☼	12/21/16 14:45	12/22/16 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU			12/27/16 12:40	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	12/16/16 14:45	12/20/16 19:58	1
Dibromofluoromethane	111		75 - 120	12/16/16 14:45	12/20/16 19:58	1
1,2-Dichloroethane-d4 (Surr)	111		69 - 134	12/16/16 14:45	12/20/16 19:58	1
Toluene-d8 (Surr)	107		75 - 123	12/16/16 14:45	12/20/16 19:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Nitroaniline	<0.40 *		0.40	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Carbazole	<0.20 *		0.20	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Benzo[b]fluoranthene	0.0087	J	0.040	0.0086	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/28/16 07:19	12/28/16 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		40 - 130	12/28/16 07:19	12/28/16 19:44	1
Phenol-d5	75		36 - 123	12/28/16 07:19	12/28/16 19:44	1
Nitrobenzene-d5	73		33 - 124	12/28/16 07:19	12/28/16 19:44	1
2-Fluorobiphenyl	77		42 - 115	12/28/16 07:19	12/28/16 19:44	1
2,4,6-Tribromophenol	85		25 - 130	12/28/16 07:19	12/28/16 19:44	1
Terphenyl-d14	105		25 - 150	12/28/16 07:19	12/28/16 19:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.0	0.21	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Arsenic	6.1		0.51	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Barium	78		0.51	0.093	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Beryllium	0.59		0.20	0.044	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Boron	2.6		2.5	0.35	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Calcium	16000		10	3.3	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Chromium	16	B	0.51	0.087	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Cobalt	6.2		0.25	0.057	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Copper	13		0.51	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Iron	17000		10	3.9	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Lead	9.4		0.25	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Magnesium	2200		5.1	2.1	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Manganese	470		0.51	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Nickel	17		0.51	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Potassium	970		25	4.1	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Selenium	0.49	J	0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Sodium	900		51	6.7	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Thallium	1.2		0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Vanadium	26		0.25	0.074	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1
Zinc	35		1.0	0.32	mg/Kg	☼	12/21/16 08:13	12/24/16 00:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:45	1
Boron	<0.50		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 12:45	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:45	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:45	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 12:45	1
Manganese	0.20		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:45	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:45	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 12:45	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:45	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 12:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 22:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 22:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0092	mg/Kg	☼	12/21/16 14:45	12/22/16 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU			12/27/16 12:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/16/16 14:45	12/20/16 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/20/16 20:23	1
Dibromofluoromethane	108		75 - 120	12/16/16 14:45	12/20/16 20:23	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 134	12/16/16 14:45	12/20/16 20:23	1
Toluene-d8 (Surr)	107		75 - 123	12/16/16 14:45	12/20/16 20:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.096	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Nitroaniline	<0.43 *		0.43	0.18	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Carbazole	<0.22 *		0.22	0.11	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	12/28/16 07:19	12/28/16 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		40 - 130	12/28/16 07:19	12/28/16 20:09	1
Phenol-d5	68		36 - 123	12/28/16 07:19	12/28/16 20:09	1
Nitrobenzene-d5	74		33 - 124	12/28/16 07:19	12/28/16 20:09	1
2-Fluorobiphenyl	76		42 - 115	12/28/16 07:19	12/28/16 20:09	1
2,4,6-Tribromophenol	108		25 - 130	12/28/16 07:19	12/28/16 20:09	1
Terphenyl-d14	104		25 - 150	12/28/16 07:19	12/28/16 20:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Arsenic	6.4		0.58	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Barium	87		0.58	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Beryllium	0.71		0.23	0.050	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Boron	4.2		2.9	0.41	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Calcium	12000		12	3.7	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Chromium	19	B	0.58	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Cobalt	7.8		0.29	0.066	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Copper	14		0.58	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Iron	19000		12	4.5	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Lead	8.4		0.29	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Magnesium	8700		5.8	2.4	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Manganese	470		0.58	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Nickel	20		0.58	0.16	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Potassium	1100		29	4.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Selenium	0.54	J	0.58	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Sodium	510		58	7.7	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Thallium	1.5		0.58	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Vanadium	32		0.29	0.085	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1
Zinc	40		1.2	0.37	mg/Kg	☼	12/21/16 08:13	12/24/16 00:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:49	1
Boron	0.060	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 77.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 12:49	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:49	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:49	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 12:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 12:49	1
Manganese	0.15		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:49	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:49	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 12:49	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:49	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 12:49	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.011	mg/Kg	✱	12/21/16 14:45	12/22/16 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			12/27/16 12:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/16/16 14:45	12/21/16 15:21	1
Dibromofluoromethane	108		75 - 120	12/16/16 14:45	12/21/16 15:21	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 134	12/16/16 14:45	12/21/16 15:21	1
Toluene-d8 (Surr)	109		75 - 123	12/16/16 14:45	12/21/16 15:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Nitroaniline	<0.36 *		0.36	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Carbazole	<0.18 *		0.18	0.090	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Fluoranthene	0.0087	J	0.036	0.0067	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Pyrene	0.0093	J	0.036	0.0072	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		40 - 130	12/28/16 07:19	12/28/16 22:15	1
Phenol-d5	52		36 - 123	12/28/16 07:19	12/28/16 22:15	1
Nitrobenzene-d5	68		33 - 124	12/28/16 07:19	12/28/16 22:15	1
2-Fluorobiphenyl	73		42 - 115	12/28/16 07:19	12/28/16 22:15	1
2,4,6-Tribromophenol	76		25 - 130	12/28/16 07:19	12/28/16 22:15	1
Terphenyl-d14	100		25 - 150	12/28/16 07:19	12/28/16 22:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	0.98	0.20	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Arsenic	4.2		0.49	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Barium	56		0.49	0.090	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Beryllium	0.56		0.20	0.043	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Boron	3.7		2.5	0.34	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Cadmium	0.041	J	0.098	0.028	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Calcium	4500		9.8	3.2	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Chromium	12	B	0.49	0.084	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Cobalt	5.8		0.25	0.055	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Copper	11		0.49	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Iron	13000		9.8	3.8	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Lead	12		0.25	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Magnesium	2300		4.9	2.0	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Manganese	330		0.49	0.097	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Nickel	12		0.49	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Potassium	900		25	4.0	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Selenium	0.52		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Silver	<0.25		0.25	0.057	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Sodium	180		49	6.5	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Thallium	0.82		0.49	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Vanadium	22		0.25	0.072	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1
Zinc	64		0.98	0.31	mg/Kg	☼	12/21/16 08:13	12/24/16 00:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:54	1
Boron	<0.50		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 87.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 12:54	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:54	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:54	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 12:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 12:54	1
Manganese	0.60		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:54	1
Nickel	0.013	J	0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:54	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 12:54	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:54	1
Zinc	0.033	J	0.50	0.020	mg/L		12/27/16 08:29	12/28/16 12:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.66		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0087	mg/Kg	☼	12/21/16 14:45	12/22/16 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU			12/27/16 13:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/16/16 14:45	12/22/16 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	12/16/16 14:45	12/22/16 17:46	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/22/16 17:46	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 134	12/16/16 14:45	12/22/16 17:46	1
Toluene-d8 (Surr)	106		75 - 123	12/16/16 14:45	12/22/16 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Nitroaniline	<0.42 *		0.42	0.18	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Carbazole	<0.21 *		0.21	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	12/28/16 07:19	12/28/16 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		40 - 130	12/28/16 07:19	12/28/16 20:34	1
Phenol-d5	56		36 - 123	12/28/16 07:19	12/28/16 20:34	1
Nitrobenzene-d5	71		33 - 124	12/28/16 07:19	12/28/16 20:34	1
2-Fluorobiphenyl	73		42 - 115	12/28/16 07:19	12/28/16 20:34	1
2,4,6-Tribromophenol	100		25 - 130	12/28/16 07:19	12/28/16 20:34	1
Terphenyl-d14	103		25 - 150	12/28/16 07:19	12/28/16 20:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.2	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Arsenic	6.1		0.59	0.27	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Barium	66		0.59	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Beryllium	0.57		0.24	0.051	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Boron	3.4		2.9	0.41	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Calcium	13000		12	3.8	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Chromium	15	B	0.59	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Cobalt	6.4		0.29	0.067	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Copper	13		0.59	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Iron	15000		12	4.5	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Lead	7.1		0.29	0.15	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Magnesium	9000		5.9	2.4	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Manganese	360		0.59	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Nickel	14		0.59	0.16	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Potassium	800		29	4.8	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Selenium	0.47	J	0.59	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Sodium	440		59	7.8	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Thallium	1.1		0.59	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Vanadium	25		0.29	0.086	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1
Zinc	32		1.2	0.37	mg/Kg	☼	12/21/16 08:13	12/24/16 01:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 12:59	1
Boron	0.072	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 12:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 12:59	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:59	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:59	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 12:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 12:59	1
Manganese	0.17		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:59	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:59	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 12:59	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 12:59	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 12:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.67		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0095	mg/Kg	☼	12/21/16 14:45	12/22/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			12/27/16 13:14	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/21/16 16:12	1
Dibromofluoromethane	108		75 - 120	12/16/16 14:45	12/21/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 134	12/16/16 14:45	12/21/16 16:12	1
Toluene-d8 (Surr)	109		75 - 123	12/16/16 14:45	12/21/16 16:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Nitroaniline	<0.35 *		0.35	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Carbazole	<0.18 *		0.18	0.087	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Fluoranthene	0.023	J	0.035	0.0065	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Pyrene	0.023	J	0.035	0.0069	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Benzo[a]anthracene	0.012	J	0.035	0.0047	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.035	0.0095	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Benzo[b]fluoranthene	0.015	J	0.035	0.0075	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Benzo[k]fluoranthene	0.011	J	0.035	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Benzo[a]pyrene	0.018	J	0.035	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.035	0.0091	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
Benzo[g,h,i]perylene	0.018	J	0.035	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		40 - 130	12/28/16 07:19	12/28/16 22:39	1
Phenol-d5	62		36 - 123	12/28/16 07:19	12/28/16 22:39	1
Nitrobenzene-d5	69		33 - 124	12/28/16 07:19	12/28/16 22:39	1
2-Fluorobiphenyl	73		42 - 115	12/28/16 07:19	12/28/16 22:39	1
2,4,6-Tribromophenol	55		25 - 130	12/28/16 07:19	12/28/16 22:39	1
Terphenyl-d14	100		25 - 150	12/28/16 07:19	12/28/16 22:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	0.94	0.20	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Arsenic	2.9		0.47	0.22	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Barium	39		0.47	0.086	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Beryllium	0.38		0.19	0.041	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Boron	2.2	J	2.4	0.33	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Cadmium	<0.094		0.094	0.027	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Calcium	9500		9.4	3.0	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Chromium	8.7	B	0.47	0.081	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Cobalt	3.8		0.24	0.053	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Copper	7.5		0.47	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Iron	8600		9.4	3.6	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Lead	7.7		0.24	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Magnesium	3800		4.7	1.9	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Manganese	230		0.47	0.093	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Nickel	9.1		0.47	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Potassium	480		24	3.9	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Selenium	0.30	J	0.47	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Sodium	390		47	6.2	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Thallium	0.65		0.47	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Vanadium	15		0.24	0.069	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1
Zinc	23		0.94	0.30	mg/Kg	☼	12/21/16 08:13	12/24/16 01:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 13:04	1
Boron	0.054	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 91.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 13:04	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:04	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:04	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 13:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 13:04	1
Manganese	1.4		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:04	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:04	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 13:04	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:04	1
Zinc	0.053	J	0.50	0.020	mg/L		12/27/16 08:29	12/28/16 13:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0091	mg/Kg	☼	12/21/16 14:45	12/22/16 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU			12/27/16 13:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 120	12/16/16 14:45	12/21/16 16:38	1
Dibromofluoromethane	114		75 - 120	12/16/16 14:45	12/21/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 134	12/16/16 14:45	12/21/16 16:38	1
Toluene-d8 (Surr)	105		75 - 123	12/16/16 14:45	12/21/16 16:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Nitroaniline	<0.37 *		0.37	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Carbazole	<0.19 *		0.19	0.092	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/28/16 07:19	12/28/16 20:59	1
Phenol-d5	53		36 - 123	12/28/16 07:19	12/28/16 20:59	1
Nitrobenzene-d5	68		33 - 124	12/28/16 07:19	12/28/16 20:59	1
2-Fluorobiphenyl	70		42 - 115	12/28/16 07:19	12/28/16 20:59	1
2,4,6-Tribromophenol	102		25 - 130	12/28/16 07:19	12/28/16 20:59	1
Terphenyl-d14	105		25 - 150	12/28/16 07:19	12/28/16 20:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.0	0.21	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Arsenic	4.2		0.51	0.23	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Barium	45		0.51	0.093	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Beryllium	0.40		0.20	0.044	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Boron	2.5		2.5	0.35	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Cadmium	0.090	J	0.10	0.029	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Calcium	14000		10	3.3	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Chromium	9.4	B	0.51	0.087	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Cobalt	5.5		0.25	0.057	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Copper	8.9		0.51	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Iron	11000		10	3.9	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Lead	5.2		0.25	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Magnesium	8800		5.1	2.1	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Manganese	360		0.51	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Nickel	13		0.51	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Potassium	530		25	4.1	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Selenium	0.30	J	0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Sodium	300		51	6.7	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Thallium	0.80		0.51	0.25	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Vanadium	19		0.25	0.074	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1
Zinc	23		1.0	0.32	mg/Kg	☼	12/21/16 08:13	12/24/16 01:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 13:09	1
Boron	0.060	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 13:09	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:09	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:09	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 13:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 13:09	1
Manganese	0.27		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:09	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:09	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 13:09	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:09	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 13:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0094	mg/Kg	☼	12/21/16 14:45	12/22/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			12/27/16 13:31	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/16/16 14:45	12/21/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	12/16/16 14:45	12/21/16 17:03	1
Dibromofluoromethane	110		75 - 120	12/16/16 14:45	12/21/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 134	12/16/16 14:45	12/21/16 17:03	1
Toluene-d8 (Surr)	106		75 - 123	12/16/16 14:45	12/21/16 17:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Nitroaniline	<0.41 *		0.41	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Carbazole	<0.21 *		0.21	0.10	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 79.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/28/16 07:19	12/28/16 21:24	1
Phenol-d5	50		36 - 123	12/28/16 07:19	12/28/16 21:24	1
Nitrobenzene-d5	71		33 - 124	12/28/16 07:19	12/28/16 21:24	1
2-Fluorobiphenyl	73		42 - 115	12/28/16 07:19	12/28/16 21:24	1
2,4,6-Tribromophenol	98		25 - 130	12/28/16 07:19	12/28/16 21:24	1
Terphenyl-d14	104		25 - 150	12/28/16 07:19	12/28/16 21:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.26	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Arsenic	5.2		0.62	0.29	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Barium	89		0.62	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Beryllium	0.63		0.25	0.053	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Boron	3.9		3.1	0.43	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Calcium	5200		12	4.0	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Chromium	16	B	0.62	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Cobalt	6.3		0.31	0.070	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Copper	13		0.62	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Iron	16000		12	4.8	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Lead	11		0.31	0.15	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Magnesium	2900		6.2	2.5	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Manganese	390		0.62	0.12	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Nickel	15		0.62	0.17	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Potassium	970		31	5.0	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Selenium	0.63		0.62	0.31	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Sodium	730		62	8.1	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Thallium	1.1		0.62	0.30	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Vanadium	25		0.31	0.090	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1
Zinc	39		1.2	0.39	mg/Kg	☼	12/21/16 08:13	12/24/16 01:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 13:22	1
Boron	0.080	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 79.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 13:22	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:22	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:22	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 13:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 13:22	1
Manganese	0.19		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:22	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:22	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 13:22	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:22	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 13:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.52		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0097	mg/Kg	☼	12/21/16 14:45	12/22/16 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			12/27/16 13:40	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	12/16/16 14:45	12/21/16 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	12/16/16 14:45	12/21/16 17:29	1
Dibromofluoromethane	100		75 - 120	12/16/16 14:45	12/21/16 17:29	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 134	12/16/16 14:45	12/21/16 17:29	1
Toluene-d8 (Surr)	104		75 - 123	12/16/16 14:45	12/21/16 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Nitroaniline	<0.39 *		0.39	0.17	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Carbazole	<0.20 *		0.20	0.099	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/28/16 07:19	12/28/16 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		40 - 130	12/28/16 07:19	12/28/16 21:49	1
Phenol-d5	53		36 - 123	12/28/16 07:19	12/28/16 21:49	1
Nitrobenzene-d5	76		33 - 124	12/28/16 07:19	12/28/16 21:49	1
2-Fluorobiphenyl	78		42 - 115	12/28/16 07:19	12/28/16 21:49	1
2,4,6-Tribromophenol	99		25 - 130	12/28/16 07:19	12/28/16 21:49	1
Terphenyl-d14	103		25 - 150	12/28/16 07:19	12/28/16 21:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.22	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Arsenic	4.7		0.53	0.24	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Barium	61		0.53	0.096	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Beryllium	0.49		0.21	0.046	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Boron	3.6		2.6	0.37	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Calcium	20000		11	3.4	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Chromium	13	B	0.53	0.091	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Cobalt	4.9		0.26	0.060	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Copper	10		0.53	0.11	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Iron	13000		11	4.1	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Lead	5.7		0.26	0.13	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Magnesium	13000		5.3	2.1	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Manganese	330		0.53	0.10	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Nickel	12		0.53	0.14	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Potassium	810		26	4.3	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Selenium	0.31	J	0.53	0.26	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Sodium	820		53	7.0	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Thallium	0.93		0.53	0.26	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Vanadium	22		0.26	0.077	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1
Zinc	28		1.1	0.33	mg/Kg	☼	12/21/16 08:13	12/24/16 01:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 13:26	1
Boron	0.081	J	0.50	0.050	mg/L		12/27/16 08:29	12/28/16 13:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 13:26	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:26	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:26	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 13:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 13:26	1
Manganese	0.22		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:26	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:26	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 13:26	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 13:26	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 13:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59	F1	0.025	0.010	mg/L		12/27/16 08:26	12/28/16 06:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 23:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 23:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0095	mg/Kg	☼	12/21/16 14:45	12/22/16 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			12/27/16 13:48	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

GC/MS VOA

Prep Batch: 365670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	5035	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	5035	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	5035	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	5035	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	5035	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	5035	
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	5035	
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	5035	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	5035	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 365878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	8260B	365670
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	8260B	365670
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	8260B	365670
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	8260B	365670
MB 500-365878/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-365878/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-365878/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 366061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	8260B	365670
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	8260B	365670
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	8260B	365670
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	8260B	365670
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	8260B	365670
MB 500-366061/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-366061/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-366061/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 366259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	8260B	365670
MB 500-366259/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-366259/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-366259/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 366823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	3541	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	3541	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	3541	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	3541	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	3541	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	3541	
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

GC/MS Semi VOA (Continued)

Prep Batch: 366823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	3541	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	3541	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	3541	
MB 500-366823/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-366823/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-121567-1 MS	1314V3-32-B06 (0-3)	Total/NA	Solid	3541	
500-121567-1 MSD	1314V3-32-B06 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 366915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	8270D	366823
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	8270D	366823
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	8270D	366823
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	8270D	366823
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	8270D	366823
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	8270D	366823
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	8270D	366823
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	8270D	366823
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	8270D	366823
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	8270D	366823
MB 500-366823/1-A	Method Blank	Total/NA	Solid	8270D	366823
LCS 500-366823/2-A	Lab Control Sample	Total/NA	Solid	8270D	366823
500-121567-1 MS	1314V3-32-B06 (0-3)	Total/NA	Solid	8270D	366823
500-121567-1 MSD	1314V3-32-B06 (0-3)	Total/NA	Solid	8270D	366823

Metals

Prep Batch: 366081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	3050B	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	3050B	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	3050B	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	3050B	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	3050B	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	3050B	
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	3050B	
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	3050B	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	3050B	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	3050B	
MB 500-366081/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-366081/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 366140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	7471B	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	7471B	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	7471B	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	7471B	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	7471B	

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QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Metals (Continued)

Prep Batch: 366140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	7471B	
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	7471B	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	7471B	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	7471B	
MB 500-366140/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-366140/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-121567-1 MS	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	
500-121567-1 MSD	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	
500-121567-1 DU	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 366345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	366140
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	7471B	366140
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	7471B	366140
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	7471B	366140
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	7471B	366140
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	7471B	366140
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	7471B	366140
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	7471B	366140
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	7471B	366140
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	7471B	366140
MB 500-366140/12-A	Method Blank	Total/NA	Solid	7471B	366140
LCS 500-366140/13-A	Lab Control Sample	Total/NA	Solid	7471B	366140
500-121567-1 MS	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	366140
500-121567-1 MSD	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	366140
500-121567-1 DU	1314V3-32-B06 (0-3)	Total/NA	Solid	7471B	366140

Leach Batch: 366546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	SPLP East	Solid	1312	
500-121567-2	1314V3-32-B05 (0-3)	SPLP East	Solid	1312	
500-121567-3	1314V3-32-B04 (0-6)	SPLP East	Solid	1312	
500-121567-5	1314V3-32-B01 (0-6)	SPLP East	Solid	1312	
500-121567-6	1314V3-32-B01 (6-12)	SPLP East	Solid	1312	
500-121567-7	1314V3-32-B03 (0-6)	SPLP East	Solid	1312	
500-121567-8	1314V3-32-B03 (6-12)	SPLP East	Solid	1312	
500-121567-9	1314V3-32-B02 (0-6)	SPLP East	Solid	1312	
500-121567-10	1314V3-32-B02 (6-12)	SPLP East	Solid	1312	
LB 500-366546/1-B	Method Blank	SPLP East	Solid	1312	
500-121567-10 MS	1314V3-32-B02 (6-12)	SPLP East	Solid	1312	
500-121567-10 DU	1314V3-32-B02 (6-12)	SPLP East	Solid	1312	

Leach Batch: 366553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	1311	
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	1311	
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	1311	
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	1311	
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	1311	
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	1311	

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QC Association Summary

Client: Ecology and Environment, Inc.
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TestAmerica Job ID: 500-121567-1

Metals (Continued)

Leach Batch: 366553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	1311	
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	1311	
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	1311	
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	1311	
LB 500-366553/1-B	Method Blank	TCLP	Solid	1311	
LB 500-366553/1-C	Method Blank	TCLP	Solid	1311	
500-121567-1 MS	1314V3-32-B06 (0-3)	TCLP	Solid	1311	
500-121567-1 DU	1314V3-32-B06 (0-3)	TCLP	Solid	1311	

Prep Batch: 366673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	SPLP East	Solid	3010A	366546
500-121567-2	1314V3-32-B05 (0-3)	SPLP East	Solid	3010A	366546
500-121567-3	1314V3-32-B04 (0-6)	SPLP East	Solid	3010A	366546
500-121567-5	1314V3-32-B01 (0-6)	SPLP East	Solid	3010A	366546
500-121567-6	1314V3-32-B01 (6-12)	SPLP East	Solid	3010A	366546
500-121567-7	1314V3-32-B03 (0-6)	SPLP East	Solid	3010A	366546
500-121567-8	1314V3-32-B03 (6-12)	SPLP East	Solid	3010A	366546
500-121567-9	1314V3-32-B02 (0-6)	SPLP East	Solid	3010A	366546
500-121567-10	1314V3-32-B02 (6-12)	SPLP East	Solid	3010A	366546
LB 500-366546/1-B	Method Blank	SPLP East	Solid	3010A	366546
LCS 500-366673/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-121567-10 MS	1314V3-32-B02 (6-12)	SPLP East	Solid	3010A	366546
500-121567-10 DU	1314V3-32-B02 (6-12)	SPLP East	Solid	3010A	366546

Prep Batch: 366678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	3010A	366553
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	3010A	366553
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	3010A	366553
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	3010A	366553
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	3010A	366553
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	3010A	366553
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	3010A	366553
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	3010A	366553
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	3010A	366553
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	3010A	366553
LB 500-366553/1-B	Method Blank	TCLP	Solid	3010A	366553
LCS 500-366678/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 366688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	6010B	366081
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	6010B	366081
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	6010B	366081
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	6010B	366081
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	6010B	366081
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	6010B	366081
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	6010B	366081
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	6010B	366081
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	6010B	366081

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QC Association Summary

Client: Ecology and Environment, Inc.
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TestAmerica Job ID: 500-121567-1

Metals (Continued)

Analysis Batch: 366688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	6010B	366081
MB 500-366081/1-A	Method Blank	Total/NA	Solid	6010B	366081
LCS 500-366081/2-A	Lab Control Sample	Total/NA	Solid	6010B	366081

Prep Batch: 366733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366553
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	7470A	366553
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	7470A	366553
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	7470A	366553
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	7470A	366553
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	7470A	366553
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	7470A	366553
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	7470A	366553
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	7470A	366553
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	7470A	366553
LB 500-366553/1-C	Method Blank	TCLP	Solid	7470A	366553
MB 500-366733/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-366733/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-121567-1 MS	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366553
500-121567-1 DU	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366553

Analysis Batch: 366836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	SPLP East	Solid	6010B	366673
500-121567-2	1314V3-32-B05 (0-3)	SPLP East	Solid	6010B	366673
500-121567-3	1314V3-32-B04 (0-6)	SPLP East	Solid	6010B	366673
500-121567-5	1314V3-32-B01 (0-6)	SPLP East	Solid	6010B	366673
500-121567-6	1314V3-32-B01 (6-12)	SPLP East	Solid	6010B	366673
500-121567-7	1314V3-32-B03 (0-6)	SPLP East	Solid	6010B	366673
500-121567-8	1314V3-32-B03 (6-12)	SPLP East	Solid	6010B	366673
500-121567-9	1314V3-32-B02 (0-6)	SPLP East	Solid	6010B	366673
500-121567-10	1314V3-32-B02 (6-12)	SPLP East	Solid	6010B	366673
LB 500-366546/1-B	Method Blank	SPLP East	Solid	6010B	366673
LCS 500-366673/2-A	Lab Control Sample	Total/NA	Solid	6010B	366673
500-121567-10 MS	1314V3-32-B02 (6-12)	SPLP East	Solid	6010B	366673
500-121567-10 DU	1314V3-32-B02 (6-12)	SPLP East	Solid	6010B	366673

Analysis Batch: 366841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	6020A	366678
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	6020A	366678
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	6020A	366678
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	6020A	366678
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	6020A	366678
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	6020A	366678
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	6020A	366678
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	6020A	366678
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	6020A	366678
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	6020A	366678
LB 500-366553/1-B	Method Blank	TCLP	Solid	6020A	366678

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QC Association Summary

Client: Ecology and Environment, Inc.
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TestAmerica Job ID: 500-121567-1

Metals (Continued)

Analysis Batch: 366841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-366678/2-A	Lab Control Sample	Total/NA	Solid	6020A	366678

Analysis Batch: 366891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366733
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	7470A	366733
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	7470A	366733
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	7470A	366733
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	7470A	366733
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	7470A	366733
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	7470A	366733
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	7470A	366733
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	7470A	366733
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	7470A	366733
LB 500-366553/1-C	Method Blank	TCLP	Solid	7470A	366733
MB 500-366733/12-A	Method Blank	Total/NA	Solid	7470A	366733
LCS 500-366733/13-A	Lab Control Sample	Total/NA	Solid	7470A	366733
500-121567-1 MS	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366733
500-121567-1 DU	1314V3-32-B06 (0-3)	TCLP	Solid	7470A	366733

Analysis Batch: 366936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	TCLP	Solid	6010B	366678
500-121567-2	1314V3-32-B05 (0-3)	TCLP	Solid	6010B	366678
500-121567-3	1314V3-32-B04 (0-6)	TCLP	Solid	6010B	366678
500-121567-4	1314V3-32-B04 (6-12)	TCLP	Solid	6010B	366678
500-121567-5	1314V3-32-B01 (0-6)	TCLP	Solid	6010B	366678
500-121567-6	1314V3-32-B01 (6-12)	TCLP	Solid	6010B	366678
500-121567-7	1314V3-32-B03 (0-6)	TCLP	Solid	6010B	366678
500-121567-8	1314V3-32-B03 (6-12)	TCLP	Solid	6010B	366678
500-121567-9	1314V3-32-B02 (0-6)	TCLP	Solid	6010B	366678
500-121567-10	1314V3-32-B02 (6-12)	TCLP	Solid	6010B	366678
LB 500-366553/1-B	Method Blank	TCLP	Solid	6010B	366678
LCS 500-366678/2-A	Lab Control Sample	Total/NA	Solid	6010B	366678

General Chemistry

Analysis Batch: 365954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	Moisture	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	Moisture	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	Moisture	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	Moisture	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	Moisture	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	Moisture	
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	Moisture	
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	Moisture	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	Moisture	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	Moisture	
500-121567-7 DU	1314V3-32-B03 (0-6)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

General Chemistry (Continued)

Analysis Batch: 366858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121567-1	1314V3-32-B06 (0-3)	Total/NA	Solid	9045D	
500-121567-2	1314V3-32-B05 (0-3)	Total/NA	Solid	9045D	
500-121567-3	1314V3-32-B04 (0-6)	Total/NA	Solid	9045D	
500-121567-4	1314V3-32-B04 (6-12)	Total/NA	Solid	9045D	
500-121567-5	1314V3-32-B01 (0-6)	Total/NA	Solid	9045D	
500-121567-6	1314V3-32-B01 (6-12)	Total/NA	Solid	9045D	
500-121567-7	1314V3-32-B03 (0-6)	Total/NA	Solid	9045D	
500-121567-8	1314V3-32-B03 (6-12)	Total/NA	Solid	9045D	
500-121567-9	1314V3-32-B02 (0-6)	Total/NA	Solid	9045D	
500-121567-10	1314V3-32-B02 (6-12)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-120)	DBFM (75-120)	12DCE (69-134)	TOL (75-123)
500-121567-1	1314V3-32-B06 (0-3)	99	110	111	110
500-121567-2	1314V3-32-B05 (0-3)	97	110	105	110
500-121567-3	1314V3-32-B04 (0-6)	99	111	111	107
500-121567-4	1314V3-32-B04 (6-12)	98	108	114	107
500-121567-5	1314V3-32-B01 (0-6)	102	108	108	109
500-121567-6	1314V3-32-B01 (6-12)	102	110	109	106
500-121567-7	1314V3-32-B03 (0-6)	98	108	112	109
500-121567-8	1314V3-32-B03 (6-12)	91	114	112	105
500-121567-9	1314V3-32-B02 (0-6)	100	110	114	106
500-121567-10	1314V3-32-B02 (6-12)	98	100	100	104
LCS 500-365878/5	Lab Control Sample	102	106	103	112
LCS 500-366061/5	Lab Control Sample	103	104	103	110
LCS 500-366259/5	Lab Control Sample	94	104	98	106
LCSD 500-365878/6	Lab Control Sample Dup	105	105	101	111
LCSD 500-366061/6	Lab Control Sample Dup	99	104	102	108
LCSD 500-366259/6	Lab Control Sample Dup	102	104	101	109
MB 500-365878/7	Method Blank	100	106	104	108
MB 500-366061/7	Method Blank	99	106	105	106
MB 500-366259/7	Method Blank	97	108	99	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (40-130)	PHL (36-123)	NBZ (33-124)	FBP (42-115)	TBP (25-130)	TPH (25-150)
500-121567-1	1314V3-32-B06 (0-3)	81	57	72	76	75	101
500-121567-1 MS	1314V3-32-B06 (0-3)	83	71	74	79	100	94
500-121567-1 MSD	1314V3-32-B06 (0-3)	85	79	75	82	96	94
500-121567-2	1314V3-32-B05 (0-3)	86	67	77	79	55	109
500-121567-3	1314V3-32-B04 (0-6)	86	75	73	77	85	105
500-121567-4	1314V3-32-B04 (6-12)	82	68	74	76	108	104
500-121567-5	1314V3-32-B01 (0-6)	79	52	68	73	76	100
500-121567-6	1314V3-32-B01 (6-12)	83	56	71	73	100	103
500-121567-7	1314V3-32-B03 (0-6)	84	62	69	73	55	100
500-121567-8	1314V3-32-B03 (6-12)	81	53	68	70	102	105
500-121567-9	1314V3-32-B02 (0-6)	81	50	71	73	98	104
500-121567-10	1314V3-32-B02 (6-12)	81	53	76	78	99	103
LCS 500-366823/2-A	Lab Control Sample	95	100	88	90	133 X	109
MB 500-366823/1-A	Method Blank	112	94	89	92	124	126

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-365878/7

Matrix: Solid

Analysis Batch: 365878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/20/16 11:03	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/20/16 11:03	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/20/16 11:03	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/20/16 11:03	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/20/16 11:03	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/20/16 11:03	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/20/16 11:03	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/20/16 11:03	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/20/16 11:03	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/20/16 11:03	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 11:03	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/20/16 11:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/20/16 11:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/20/16 11:03	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/20/16 11:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 11:03	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/20/16 11:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/20/16 11:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/20/16 11:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/20/16 11:03	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/20/16 11:03	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/20/16 11:03	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/20/16 11:03	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/20/16 11:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/20/16 11:03	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/20/16 11:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/20/16 11:03	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/20/16 11:03	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/20/16 11:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/20/16 11:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/20/16 11:03	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/20/16 11:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/20/16 11:03	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/20/16 11:03	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/20/16 11:03	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/20/16 11:03	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/20/16 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120		12/20/16 11:03	1
Dibromofluoromethane	106		75 - 120		12/20/16 11:03	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 134		12/20/16 11:03	1
Toluene-d8 (Surr)	108		75 - 123		12/20/16 11:03	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-365878/5

Matrix: Solid

Analysis Batch: 365878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0534		mg/Kg		107	40 - 148
Benzene	0.0500	0.0543		mg/Kg		109	70 - 120
Bromodichloromethane	0.0500	0.0524		mg/Kg		105	67 - 120
Bromoform	0.0500	0.0513		mg/Kg		103	50 - 129
Bromomethane	0.0500	0.0499		mg/Kg		100	50 - 134
2-Butanone (MEK)	0.0500	0.0512		mg/Kg		102	47 - 138
Carbon disulfide	0.0500	0.0514		mg/Kg		103	67 - 133
Carbon tetrachloride	0.0500	0.0498		mg/Kg		100	65 - 123
Chlorobenzene	0.0500	0.0530		mg/Kg		106	70 - 120
Chloroethane	0.0500	0.0476		mg/Kg		95	40 - 150
Chloroform	0.0500	0.0534		mg/Kg		107	70 - 120
Chloromethane	0.0500	0.0597		mg/Kg		119	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0546		mg/Kg		109	70 - 120
Dibromochloromethane	0.0500	0.0538		mg/Kg		108	68 - 120
1,1-Dichloroethane	0.0500	0.0542		mg/Kg		108	70 - 125
1,2-Dichloroethane	0.0500	0.0557		mg/Kg		111	65 - 126
1,1-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 122
1,2-Dichloropropane	0.0500	0.0565		mg/Kg		113	70 - 126
Ethylbenzene	0.0500	0.0520		mg/Kg		104	70 - 120
2-Hexanone	0.0500	0.0529		mg/Kg		106	51 - 139
Methylene Chloride	0.0500	0.0514		mg/Kg		103	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0495		mg/Kg		99	51 - 141
Methyl tert-butyl ether	0.0500	0.0543		mg/Kg		109	70 - 121
Styrene	0.0500	0.0546		mg/Kg		109	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0554		mg/Kg		111	70 - 125
Tetrachloroethene	0.0500	0.0490		mg/Kg		98	70 - 122
Toluene	0.0500	0.0525		mg/Kg		105	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 121
1,1,1-Trichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120
1,1,2-Trichloroethane	0.0500	0.0551		mg/Kg		110	70 - 120
Trichloroethene	0.0500	0.0517		mg/Kg		103	70 - 124
Vinyl acetate	0.0500	0.0636		mg/Kg		127	40 - 150
Vinyl chloride	0.0500	0.0524		mg/Kg		105	64 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		69 - 134
Toluene-d8 (Surr)	112		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-365878/6

Matrix: Solid

Analysis Batch: 365878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0569		mg/Kg		114	40 - 148	6	30
Benzene	0.0500	0.0510		mg/Kg		102	70 - 120	6	30
Bromodichloromethane	0.0500	0.0513		mg/Kg		103	67 - 120	2	30
Bromoform	0.0500	0.0540		mg/Kg		108	50 - 129	5	30
Bromomethane	0.0500	0.0495		mg/Kg		99	50 - 134	1	30
2-Butanone (MEK)	0.0500	0.0570		mg/Kg		114	47 - 138	11	30
Carbon disulfide	0.0500	0.0495		mg/Kg		99	67 - 133	4	30
Carbon tetrachloride	0.0500	0.0474		mg/Kg		95	65 - 123	5	30
Chlorobenzene	0.0500	0.0526		mg/Kg		105	70 - 120	1	30
Chloroethane	0.0500	0.0434		mg/Kg		87	40 - 150	9	30
Chloroform	0.0500	0.0513		mg/Kg		103	70 - 120	4	30
Chloromethane	0.0500	0.0578		mg/Kg		116	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0546		mg/Kg		109	70 - 120	0	30
Dibromochloromethane	0.0500	0.0544		mg/Kg		109	68 - 120	1	30
1,1-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0523		mg/Kg		105	65 - 126	6	30
1,1-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 122	6	30
1,2-Dichloropropane	0.0500	0.0536		mg/Kg		107	70 - 126	5	30
Ethylbenzene	0.0500	0.0517		mg/Kg		103	70 - 120	1	30
2-Hexanone	0.0500	0.0583		mg/Kg		117	51 - 139	10	30
Methylene Chloride	0.0500	0.0513		mg/Kg		103	70 - 121	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0530		mg/Kg		106	51 - 141	7	30
Methyl tert-butyl ether	0.0500	0.0542		mg/Kg		108	70 - 121	0	30
Styrene	0.0500	0.0544		mg/Kg		109	70 - 121	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0561		mg/Kg		112	70 - 125	1	30
Tetrachloroethene	0.0500	0.0480		mg/Kg		96	70 - 122	2	30
Toluene	0.0500	0.0512		mg/Kg		102	70 - 121	2	30
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120	2	30
trans-1,3-Dichloropropene	0.0500	0.0552		mg/Kg		110	70 - 121	3	30
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 120	4	30
1,1,2-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 120	1	30
Trichloroethene	0.0500	0.0482		mg/Kg		96	70 - 124	7	30
Vinyl acetate	0.0500	0.0608		mg/Kg		122	40 - 150	5	30
Vinyl chloride	0.0500	0.0507		mg/Kg		101	64 - 125	3	30
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 123	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 120
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		69 - 134
Toluene-d8 (Surr)	111		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366061/7

Matrix: Solid

Analysis Batch: 366061

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/21/16 13:14	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 13:14	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/21/16 13:14	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 13:14	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/21/16 13:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/21/16 13:14	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/21/16 13:14	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/21/16 13:14	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/21/16 13:14	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 13:14	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 13:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/21/16 13:14	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 13:14	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/21/16 13:14	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 13:14	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/21/16 13:14	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/21/16 13:14	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 13:14	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/21/16 13:14	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/21/16 13:14	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/21/16 13:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/21/16 13:14	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/21/16 13:14	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/21/16 13:14	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/21/16 13:14	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 13:14	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/21/16 13:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 13:14	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/21/16 13:14	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/21/16 13:14	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/21/16 13:14	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/21/16 13:14	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/21/16 13:14	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/21/16 13:14	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/21/16 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120		12/21/16 13:14	1
Dibromofluoromethane	106		75 - 120		12/21/16 13:14	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 134		12/21/16 13:14	1
Toluene-d8 (Surr)	106		75 - 123		12/21/16 13:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366061/5

Matrix: Solid

Analysis Batch: 366061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0631		mg/Kg		126	40 - 148
Benzene	0.0500	0.0502		mg/Kg		100	70 - 120
Bromodichloromethane	0.0500	0.0501		mg/Kg		100	67 - 120
Bromoform	0.0500	0.0518		mg/Kg		104	50 - 129
Bromomethane	0.0500	0.0477		mg/Kg		95	50 - 134
2-Butanone (MEK)	0.0500	0.0541		mg/Kg		108	47 - 138
Carbon disulfide	0.0500	0.0464		mg/Kg		93	67 - 133
Carbon tetrachloride	0.0500	0.0449		mg/Kg		90	65 - 123
Chlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0443		mg/Kg		89	40 - 150
Chloroform	0.0500	0.0492		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0575		mg/Kg		115	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0524		mg/Kg		105	70 - 120
Dibromochloromethane	0.0500	0.0515		mg/Kg		103	68 - 120
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 125
1,2-Dichloroethane	0.0500	0.0520		mg/Kg		104	65 - 126
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 122
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 126
Ethylbenzene	0.0500	0.0484		mg/Kg		97	70 - 120
2-Hexanone	0.0500	0.0566		mg/Kg		113	51 - 139
Methylene Chloride	0.0500	0.0469		mg/Kg		94	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0523		mg/Kg		105	51 - 141
Methyl tert-butyl ether	0.0500	0.0521		mg/Kg		104	70 - 121
Styrene	0.0500	0.0507		mg/Kg		101	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0444		mg/Kg		89	70 - 122
Toluene	0.0500	0.0497		mg/Kg		99	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	70 - 121
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 120
Trichloroethene	0.0500	0.0469		mg/Kg		94	70 - 124
Vinyl acetate	0.0500	0.0577		mg/Kg		115	40 - 150
Vinyl chloride	0.0500	0.0499		mg/Kg		100	64 - 125
Xylenes, Total	0.100	0.0996		mg/Kg		100	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		69 - 134
Toluene-d8 (Surr)	110		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-366061/6

Matrix: Solid

Analysis Batch: 366061

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0662		mg/Kg		132	40 - 148	5	30
Benzene	0.0500	0.0505		mg/Kg		101	70 - 120	1	30
Bromodichloromethane	0.0500	0.0521		mg/Kg		104	67 - 120	4	30
Bromoform	0.0500	0.0530		mg/Kg		106	50 - 129	2	30
Bromomethane	0.0500	0.0480		mg/Kg		96	50 - 134	1	30
2-Butanone (MEK)	0.0500	0.0591		mg/Kg		118	47 - 138	9	30
Carbon disulfide	0.0500	0.0479		mg/Kg		96	67 - 133	3	30
Carbon tetrachloride	0.0500	0.0456		mg/Kg		91	65 - 123	2	30
Chlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120	1	30
Chloroethane	0.0500	0.0438		mg/Kg		88	40 - 150	1	30
Chloroform	0.0500	0.0513		mg/Kg		103	70 - 120	4	30
Chloromethane	0.0500	0.0560		mg/Kg		112	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120	3	30
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 120	2	30
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	68 - 120	2	30
1,1-Dichloroethane	0.0500	0.0509		mg/Kg		102	70 - 125	4	30
1,2-Dichloroethane	0.0500	0.0534		mg/Kg		107	65 - 126	3	30
1,1-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 122	5	30
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 126	4	30
Ethylbenzene	0.0500	0.0481		mg/Kg		96	70 - 120	1	30
2-Hexanone	0.0500	0.0577		mg/Kg		115	51 - 139	2	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 121	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0526		mg/Kg		105	51 - 141	1	30
Methyl tert-butyl ether	0.0500	0.0545		mg/Kg		109	70 - 121	5	30
Styrene	0.0500	0.0509		mg/Kg		102	70 - 121	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0572		mg/Kg		114	70 - 125	7	30
Tetrachloroethene	0.0500	0.0457		mg/Kg		91	70 - 122	3	30
Toluene	0.0500	0.0491		mg/Kg		98	70 - 121	1	30
trans-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 121	1	30
1,1,1-Trichloroethane	0.0500	0.0473		mg/Kg		95	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0536		mg/Kg		107	70 - 120	0	30
Trichloroethene	0.0500	0.0479		mg/Kg		96	70 - 124	2	30
Vinyl acetate	0.0500	0.0566		mg/Kg		113	40 - 150	2	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	64 - 125	3	30
Xylenes, Total	0.100	0.0982		mg/Kg		98	70 - 123	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	99		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		69 - 134
Toluene-d8 (Surr)	108		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366259/7

Matrix: Solid

Analysis Batch: 366259

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			12/22/16 10:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			12/22/16 10:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			12/22/16 10:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			12/22/16 10:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			12/22/16 10:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			12/22/16 10:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			12/22/16 10:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			12/22/16 10:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			12/22/16 10:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			12/22/16 10:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			12/22/16 10:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			12/22/16 10:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			12/22/16 10:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			12/22/16 10:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			12/22/16 10:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			12/22/16 10:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			12/22/16 10:09	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			12/22/16 10:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			12/22/16 10:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			12/22/16 10:09	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			12/22/16 10:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			12/22/16 10:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			12/22/16 10:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			12/22/16 10:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			12/22/16 10:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/22/16 10:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			12/22/16 10:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			12/22/16 10:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			12/22/16 10:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			12/22/16 10:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			12/22/16 10:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			12/22/16 10:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			12/22/16 10:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			12/22/16 10:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			12/22/16 10:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120		12/22/16 10:09	1
Dibromofluoromethane	108		75 - 120		12/22/16 10:09	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 134		12/22/16 10:09	1
Toluene-d8 (Surr)	105		75 - 123		12/22/16 10:09	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366259/5

Matrix: Solid

Analysis Batch: 366259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0561		mg/Kg		112	40 - 148
Benzene	0.0500	0.0501		mg/Kg		100	70 - 120
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 120
Bromoform	0.0500	0.0466		mg/Kg		93	50 - 129
Bromomethane	0.0500	0.0466		mg/Kg		93	50 - 134
2-Butanone (MEK)	0.0500	0.0525		mg/Kg		105	47 - 138
Carbon disulfide	0.0500	0.0479		mg/Kg		96	67 - 133
Carbon tetrachloride	0.0500	0.0472		mg/Kg		94	65 - 123
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0449		mg/Kg		90	40 - 150
Chloroform	0.0500	0.0505		mg/Kg		101	70 - 120
Chloromethane	0.0500	0.0561		mg/Kg		112	63 - 135
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 120
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 120
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	68 - 120
1,1-Dichloroethane	0.0500	0.0511		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0511		mg/Kg		102	65 - 126
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 122
1,2-Dichloropropane	0.0500	0.0570		mg/Kg		114	70 - 126
Ethylbenzene	0.0500	0.0492		mg/Kg		98	70 - 120
2-Hexanone	0.0500	0.0530		mg/Kg		106	51 - 139
Methylene Chloride	0.0500	0.0483		mg/Kg		97	70 - 121
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	51 - 141
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg		103	70 - 121
Styrene	0.0500	0.0484		mg/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0518		mg/Kg		104	70 - 125
Tetrachloroethene	0.0500	0.0473		mg/Kg		95	70 - 122
Toluene	0.0500	0.0498		mg/Kg		100	70 - 121
trans-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
trans-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 121
1,1,1-Trichloroethane	0.0500	0.0482		mg/Kg		96	70 - 120
1,1,2-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 124
Vinyl acetate	0.0500	0.0553		mg/Kg		111	40 - 150
Vinyl chloride	0.0500	0.0484		mg/Kg		97	64 - 125
Xylenes, Total	0.100	0.0956		mg/Kg		96	70 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		69 - 134
Toluene-d8 (Surr)	106		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-366259/6

Matrix: Solid

Analysis Batch: 366259

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0533		mg/Kg		107	40 - 148	5	30
Benzene	0.0500	0.0512		mg/Kg		102	70 - 120	2	30
Bromodichloromethane	0.0500	0.0506		mg/Kg		101	67 - 120	5	30
Bromoform	0.0500	0.0495		mg/Kg		99	50 - 129	6	30
Bromomethane	0.0500	0.0466		mg/Kg		93	50 - 134	0	30
2-Butanone (MEK)	0.0500	0.0537		mg/Kg		107	47 - 138	2	30
Carbon disulfide	0.0500	0.0493		mg/Kg		99	67 - 133	3	30
Carbon tetrachloride	0.0500	0.0480		mg/Kg		96	65 - 123	2	30
Chlorobenzene	0.0500	0.0499		mg/Kg		100	70 - 120	0	30
Chloroethane	0.0500	0.0447		mg/Kg		89	40 - 150	0	30
Chloroform	0.0500	0.0517		mg/Kg		103	70 - 120	2	30
Chloromethane	0.0500	0.0581		mg/Kg		116	63 - 135	3	30
cis-1,2-Dichloroethene	0.0500	0.0514		mg/Kg		103	70 - 120	5	30
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	70 - 120	2	30
Dibromochloromethane	0.0500	0.0505		mg/Kg		101	68 - 120	0	30
1,1-Dichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0506		mg/Kg		101	65 - 126	1	30
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 122	3	30
1,2-Dichloropropane	0.0500	0.0548		mg/Kg		110	70 - 126	4	30
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 120	0	30
2-Hexanone	0.0500	0.0490		mg/Kg		98	51 - 139	8	30
Methylene Chloride	0.0500	0.0498		mg/Kg		100	70 - 121	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0445		mg/Kg		89	51 - 141	6	30
Methyl tert-butyl ether	0.0500	0.0521		mg/Kg		104	70 - 121	1	30
Styrene	0.0500	0.0514		mg/Kg		103	70 - 121	6	30
1,1,1,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	70 - 125	3	30
Tetrachloroethene	0.0500	0.0461		mg/Kg		92	70 - 122	3	30
Toluene	0.0500	0.0498		mg/Kg		100	70 - 121	0	30
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120	3	30
trans-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 121	9	30
1,1,1-Trichloroethane	0.0500	0.0494		mg/Kg		99	70 - 120	2	30
1,1,2-Trichloroethane	0.0500	0.0527		mg/Kg		105	70 - 120	3	30
Trichloroethene	0.0500	0.0488		mg/Kg		98	70 - 124	7	30
Vinyl acetate	0.0500	0.0558		mg/Kg		112	40 - 150	1	30
Vinyl chloride	0.0500	0.0508		mg/Kg		102	64 - 125	5	30
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 123	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		69 - 134
Toluene-d8 (Surr)	109		75 - 123

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-366823/1-A

Matrix: Solid

Analysis Batch: 366915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/28/16 07:19	12/28/16 18:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-366823/1-A
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/28/16 07:19	12/28/16 18:55	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/28/16 07:19	12/28/16 18:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		40 - 130	12/28/16 07:19	12/28/16 18:55	1
Phenol-d5	94		36 - 123	12/28/16 07:19	12/28/16 18:55	1
Nitrobenzene-d5	89		33 - 124	12/28/16 07:19	12/28/16 18:55	1
2-Fluorobiphenyl	92		42 - 115	12/28/16 07:19	12/28/16 18:55	1
2,4,6-Tribromophenol	124		25 - 130	12/28/16 07:19	12/28/16 18:55	1
Terphenyl-d14	126		25 - 150	12/28/16 07:19	12/28/16 18:55	1

Lab Sample ID: LCS 500-366823/2-A
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.15		mg/Kg		87	55 - 118
Bis(2-chloroethyl)ether	1.33	1.29		mg/Kg		97	53 - 116
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	56 - 110
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	57 - 110
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		89	56 - 110
2-Methylphenol	1.33	1.23		mg/Kg		92	53 - 123
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	22 - 133
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 119
Hexachloroethane	1.33	1.15		mg/Kg		86	54 - 111
2-Chlorophenol	1.33	1.28		mg/Kg		96	57 - 117
Nitrobenzene	1.33	1.25		mg/Kg		93	56 - 121
Bis(2-chloroethoxy)methane	1.33	1.22		mg/Kg		91	59 - 116
1,2,4-Trichlorobenzene	1.33	1.24		mg/Kg		93	60 - 116
Isophorone	1.33	1.17		mg/Kg		88	54 - 120
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	50 - 120
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120
Naphthalene	1.33	1.18		mg/Kg		89	58 - 116
2,4-Dichlorophenol	1.33	1.03		mg/Kg		77	61 - 116

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366823/2-A
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.70		mg/Kg		128	10 - 150
2,4,6-Trichlorophenol	1.33	1.35		mg/Kg		101	50 - 120
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	42 - 119
Hexachlorocyclopentadiene	1.33	1.08		mg/Kg		81	10 - 116
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	55 - 120
2-Nitroaniline	1.33	1.30		mg/Kg		97	52 - 121
2-Chloronaphthalene	1.33	1.26		mg/Kg		94	57 - 112
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	59 - 117
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		98	57 - 118
2-Nitrophenol	1.33	1.25		mg/Kg		94	58 - 121
3-Nitroaniline	1.33	1.38		mg/Kg		104	20 - 144
Dimethyl phthalate	1.33	1.27		mg/Kg		95	60 - 112
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		16	10 - 110
Acenaphthylene	1.33	1.23		mg/Kg		93	57 - 116
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	59 - 119
Acenaphthene	1.33	1.21		mg/Kg		90	52 - 113
Dibenzofuran	1.33	1.18		mg/Kg		88	59 - 110
4-Nitrophenol	2.67	1.69		mg/Kg		63	32 - 123
Fluorene	1.33	1.26		mg/Kg		95	56 - 115
4-Nitroaniline	1.33	2.42	E *	mg/Kg		181	55 - 146
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	61 - 124
Hexachlorobenzene	1.33	1.36		mg/Kg		102	62 - 126
Diethyl phthalate	1.33	1.22		mg/Kg		92	58 - 117
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	61 - 111
Pentachlorophenol	2.67	2.16		mg/Kg		81	12 - 116
N-Nitrosodiphenylamine	1.33	1.46		mg/Kg		110	62 - 117
4,6-Dinitro-2-methylphenol	2.67	1.24		mg/Kg		46	10 - 110
Phenanthrene	1.33	1.25		mg/Kg		94	58 - 125
Anthracene	1.33	1.25		mg/Kg		94	57 - 118
Carbazole	1.33	1.88	*	mg/Kg		141	65 - 137
Di-n-butyl phthalate	1.33	1.30		mg/Kg		98	61 - 123
Fluoranthene	1.33	1.29		mg/Kg		97	61 - 124
Pyrene	1.33	1.26		mg/Kg		95	60 - 115
Butyl benzyl phthalate	1.33	1.29		mg/Kg		96	61 - 115
Benzo[a]anthracene	1.33	1.26		mg/Kg		95	63 - 115
Chrysene	1.33	1.25		mg/Kg		93	63 - 118
3,3'-Dichlorobenzidine	1.33	1.46		mg/Kg		109	40 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	62 - 117
Di-n-octyl phthalate	1.33	1.33		mg/Kg		99	58 - 129
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		94	61 - 123
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	59 - 125
Benzo[a]pyrene	1.33	1.26		mg/Kg		95	64 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.32		mg/Kg		99	50 - 149
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	61 - 134
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	55 - 134
3 & 4 Methylphenol	1.33	1.17		mg/Kg		88	55 - 124

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-366823/2-A
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366823

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	95		40 - 130
Phenol-d5	100		36 - 123
Nitrobenzene-d5	88		33 - 124
2-Fluorobiphenyl	90		42 - 115
2,4,6-Tribromophenol	133	X	25 - 130
Terphenyl-d14	109		25 - 150

Lab Sample ID: 500-121567-1 MS
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: Total/NA
Prep Batch: 366823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.20		1.61	1.12		mg/Kg	☼	70	55 - 118
Bis(2-chloroethyl)ether	<0.20		1.61	1.13		mg/Kg	☼	70	53 - 116
1,3-Dichlorobenzene	<0.20		1.61	1.09		mg/Kg	☼	68	56 - 110
1,4-Dichlorobenzene	<0.20		1.61	1.15		mg/Kg	☼	71	57 - 110
1,2-Dichlorobenzene	<0.20		1.61	1.09		mg/Kg	☼	68	56 - 110
2-Methylphenol	<0.20		1.61	1.37		mg/Kg	☼	85	53 - 123
2,2'-oxybis[1-chloropropane]	<0.20		1.61	1.14		mg/Kg	☼	71	22 - 133
N-Nitrosodi-n-propylamine	<0.081		1.61	1.31		mg/Kg	☼	81	56 - 119
Hexachloroethane	<0.20		1.61	1.10		mg/Kg	☼	68	54 - 111
2-Chlorophenol	<0.20		1.61	1.21		mg/Kg	☼	75	57 - 117
Nitrobenzene	<0.040		1.61	1.32		mg/Kg	☼	82	56 - 121
Bis(2-chloroethoxy)methane	<0.20		1.61	1.18		mg/Kg	☼	74	59 - 116
1,2,4-Trichlorobenzene	<0.20		1.61	1.27		mg/Kg	☼	79	60 - 116
Isophorone	<0.20		1.61	1.15		mg/Kg	☼	72	54 - 120
2,4-Dimethylphenol	<0.40		1.61	1.25		mg/Kg	☼	78	50 - 120
Hexachlorobutadiene	<0.20		1.61	1.18		mg/Kg	☼	73	56 - 120
Naphthalene	<0.040		1.61	1.21		mg/Kg	☼	75	58 - 116
2,4-Dichlorophenol	<0.40		1.61	1.36		mg/Kg	☼	85	61 - 116
4-Chloroaniline	<0.81		1.61	1.36		mg/Kg	☼	85	10 - 150
2,4,6-Trichlorophenol	<0.40		1.61	1.24		mg/Kg	☼	77	50 - 120
2,4,5-Trichlorophenol	<0.40		1.61	1.25		mg/Kg	☼	77	42 - 119
Hexachlorocyclopentadiene	<0.81		1.61	0.659	J	mg/Kg	☼	41	10 - 116
2-Methylnaphthalene	<0.081		1.61	1.34		mg/Kg	☼	83	55 - 120
2-Nitroaniline	<0.20		1.61	1.32		mg/Kg	☼	82	52 - 121
2-Chloronaphthalene	<0.20		1.61	1.32		mg/Kg	☼	82	57 - 112
4-Chloro-3-methylphenol	<0.40		1.61	1.22		mg/Kg	☼	76	59 - 117
2,6-Dinitrotoluene	<0.20		1.61	1.38		mg/Kg	☼	86	57 - 118
2-Nitrophenol	<0.40		1.61	1.32		mg/Kg	☼	82	58 - 121
3-Nitroaniline	<0.40		1.61	1.59		mg/Kg	☼	99	20 - 144
Dimethyl phthalate	<0.20		1.61	1.37		mg/Kg	☼	85	60 - 112
2,4-Dinitrophenol	<0.81	F1	3.22	0.798	J	mg/Kg	☼	25	10 - 110
Acenaphthylene	<0.040		1.61	1.30		mg/Kg	☼	81	57 - 116
2,4-Dinitrotoluene	<0.20		1.61	1.30		mg/Kg	☼	81	59 - 119
Acenaphthene	<0.040		1.61	1.31		mg/Kg	☼	81	52 - 113
Dibenzofuran	<0.20		1.61	1.27		mg/Kg	☼	79	59 - 110
4-Nitrophenol	<0.81	F2	3.22	1.04		mg/Kg	☼	32	32 - 123

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121567-1 MS

Matrix: Solid

Analysis Batch: 366915

Client Sample ID: 1314V3-32-B06 (0-3)

Prep Type: Total/NA

Prep Batch: 366823

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	0.010	J	1.61	1.37		mg/Kg	☼	85		56 - 115
4-Nitroaniline	<0.40	* F1	1.61	2.62	F1	mg/Kg	☼	163		55 - 146
4-Bromophenyl phenyl ether	<0.20		1.61	1.37		mg/Kg	☼	85		61 - 124
Hexachlorobenzene	<0.081		1.61	1.52		mg/Kg	☼	95		62 - 126
Diethyl phthalate	<0.20		1.61	1.35		mg/Kg	☼	84		58 - 117
4-Chlorophenyl phenyl ether	<0.20		1.61	1.35		mg/Kg	☼	84		61 - 111
Pentachlorophenol	<0.81	F2	3.22	1.49		mg/Kg	☼	46		12 - 116
N-Nitrosodiphenylamine	<0.20		1.61	1.56		mg/Kg	☼	97		62 - 117
4,6-Dinitro-2-methylphenol	<0.81		3.22	0.873		mg/Kg	☼	27		10 - 110
Phenanthrene	0.23		1.61	1.66		mg/Kg	☼	89		58 - 125
Anthracene	0.046		1.61	1.44		mg/Kg	☼	86		57 - 118
Carbazole	<0.20	*	1.61	2.10		mg/Kg	☼	130		65 - 137
Di-n-butyl phthalate	<0.20		1.61	1.42		mg/Kg	☼	88		61 - 123
Fluoranthene	0.51		1.61	1.94		mg/Kg	☼	89		61 - 124
Pyrene	0.40		1.61	1.69		mg/Kg	☼	80		60 - 115
Butyl benzyl phthalate	<0.20		1.61	1.34		mg/Kg	☼	84		61 - 115
Benzo[a]anthracene	0.20		1.61	1.54		mg/Kg	☼	84		63 - 115
Chrysene	0.25		1.61	1.52		mg/Kg	☼	79		63 - 118
3,3'-Dichlorobenzidine	<0.20		1.61	1.17		mg/Kg	☼	73		40 - 110
Bis(2-ethylhexyl) phthalate	<0.20		1.61	1.40		mg/Kg	☼	87		62 - 117
Di-n-octyl phthalate	<0.20		1.61	1.48		mg/Kg	☼	92		58 - 129
Benzo[b]fluoranthene	0.30		1.61	1.72		mg/Kg	☼	88		61 - 123
Benzo[k]fluoranthene	0.11		1.61	1.58		mg/Kg	☼	92		59 - 125
Benzo[a]pyrene	0.20		1.61	1.54		mg/Kg	☼	83		64 - 122
Indeno[1,2,3-cd]pyrene	0.11		1.61	1.25		mg/Kg	☼	71		50 - 149
Dibenz(a,h)anthracene	0.038	J	1.61	1.25		mg/Kg	☼	75		61 - 134
Benzo[g,h,i]perylene	0.12		1.61	1.14		mg/Kg	☼	63		55 - 134
3 & 4 Methylphenol	<0.20		1.61	1.14		mg/Kg	☼	71		55 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	83		40 - 130
Phenol-d5	71		36 - 123
Nitrobenzene-d5	74		33 - 124
2-Fluorobiphenyl	79		42 - 115
2,4,6-Tribromophenol	100		25 - 130
Terphenyl-d14	94		25 - 150

Lab Sample ID: 500-121567-1 MSD

Matrix: Solid

Analysis Batch: 366915

Client Sample ID: 1314V3-32-B06 (0-3)

Prep Type: Total/NA

Prep Batch: 366823

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.20		1.60	1.13		mg/Kg	☼	70		55 - 118	0	30
Bis(2-chloroethyl)ether	<0.20		1.60	1.16		mg/Kg	☼	72		53 - 116	3	30
1,3-Dichlorobenzene	<0.20		1.60	1.18		mg/Kg	☼	74		56 - 110	8	30
1,4-Dichlorobenzene	<0.20		1.60	1.20		mg/Kg	☼	75		57 - 110	5	30
1,2-Dichlorobenzene	<0.20		1.60	1.17		mg/Kg	☼	73		56 - 110	7	30
2-Methylphenol	<0.20		1.60	1.19		mg/Kg	☼	74		53 - 123	14	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121567-1 MSD

Matrix: Solid

Analysis Batch: 366915

Client Sample ID: 1314V3-32-B06 (0-3)

Prep Type: Total/NA

Prep Batch: 366823

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.20		1.60	1.20		mg/Kg	☼	75	22 - 133	5	30
N-Nitrosodi-n-propylamine	<0.081		1.60	1.34		mg/Kg	☼	84	56 - 119	2	30
Hexachloroethane	<0.20		1.60	1.14		mg/Kg	☼	71	54 - 111	3	30
2-Chlorophenol	<0.20		1.60	1.32		mg/Kg	☼	83	57 - 117	9	30
Nitrobenzene	<0.040		1.60	1.26		mg/Kg	☼	79	56 - 121	5	30
Bis(2-chloroethoxy)methane	<0.20		1.60	1.24		mg/Kg	☼	77	59 - 116	5	30
1,2,4-Trichlorobenzene	<0.20		1.60	1.27		mg/Kg	☼	80	60 - 116	0	30
Isophorone	<0.20		1.60	1.18		mg/Kg	☼	74	54 - 120	2	30
2,4-Dimethylphenol	<0.40		1.60	1.21		mg/Kg	☼	76	50 - 120	3	30
Hexachlorobutadiene	<0.20		1.60	1.24		mg/Kg	☼	77	56 - 120	5	30
Naphthalene	<0.040		1.60	1.24		mg/Kg	☼	77	58 - 116	3	30
2,4-Dichlorophenol	<0.40		1.60	1.04		mg/Kg	☼	65	61 - 116	27	30
4-Chloroaniline	<0.81		1.60	1.22		mg/Kg	☼	76	10 - 150	11	30
2,4,6-Trichlorophenol	<0.40		1.60	1.28		mg/Kg	☼	80	50 - 120	3	30
2,4,5-Trichlorophenol	<0.40		1.60	1.40		mg/Kg	☼	88	42 - 119	12	30
Hexachlorocyclopentadiene	<0.81		1.60	0.629	J	mg/Kg	☼	39	10 - 116	5	30
2-Methylnaphthalene	<0.081		1.60	1.35		mg/Kg	☼	85	55 - 120	1	30
2-Nitroaniline	<0.20		1.60	1.40		mg/Kg	☼	87	52 - 121	6	30
2-Chloronaphthalene	<0.20		1.60	1.36		mg/Kg	☼	85	57 - 112	3	30
4-Chloro-3-methylphenol	<0.40		1.60	1.22		mg/Kg	☼	76	59 - 117	1	30
2,6-Dinitrotoluene	<0.20		1.60	1.46		mg/Kg	☼	91	57 - 118	6	30
2-Nitrophenol	<0.40		1.60	1.33		mg/Kg	☼	83	58 - 121	1	30
3-Nitroaniline	<0.40		1.60	1.72		mg/Kg	☼	108	20 - 144	8	30
Dimethyl phthalate	<0.20		1.60	1.40		mg/Kg	☼	88	60 - 112	3	30
2,4-Dinitrophenol	<0.81	F1	3.20	0.881		mg/Kg	☼	28	10 - 110	10	30
Acenaphthylene	<0.040		1.60	1.35		mg/Kg	☼	85	57 - 116	4	30
2,4-Dinitrotoluene	<0.20		1.60	1.27		mg/Kg	☼	79	59 - 119	2	30
Acenaphthene	<0.040		1.60	1.39		mg/Kg	☼	87	52 - 113	6	30
Dibenzofuran	<0.20		1.60	1.32		mg/Kg	☼	82	59 - 110	3	30
4-Nitrophenol	<0.81	F2	3.20	2.69	F2	mg/Kg	☼	84	32 - 123	88	30
Fluorene	0.010	J	1.60	1.43		mg/Kg	☼	89	56 - 115	4	30
4-Nitroaniline	<0.40	* F1	1.60	2.66	F1	mg/Kg	☼	166	55 - 146	2	30
4-Bromophenyl phenyl ether	<0.20		1.60	1.39		mg/Kg	☼	87	61 - 124	1	30
Hexachlorobenzene	<0.081		1.60	1.48		mg/Kg	☼	93	62 - 126	3	30
Diethyl phthalate	<0.20		1.60	1.37		mg/Kg	☼	85	58 - 117	1	30
4-Chlorophenyl phenyl ether	<0.20		1.60	1.36		mg/Kg	☼	85	61 - 111	1	30
Pentachlorophenol	<0.81	F2	3.20	0.960	F2	mg/Kg	☼	30	12 - 116	44	30
N-Nitrosodiphenylamine	<0.20		1.60	1.50		mg/Kg	☼	94	62 - 117	3	30
4,6-Dinitro-2-methylphenol	<0.81		3.20	0.670	J	mg/Kg	☼	21	10 - 110	26	30
Phenanthrene	0.23		1.60	1.72		mg/Kg	☼	93	58 - 125	4	30
Anthracene	0.046		1.60	1.44		mg/Kg	☼	87	57 - 118	0	30
Carbazole	<0.20	*	1.60	2.12		mg/Kg	☼	133	65 - 137	1	30
Di-n-butyl phthalate	<0.20		1.60	1.43		mg/Kg	☼	89	61 - 123	1	30
Fluoranthene	0.51		1.60	2.09		mg/Kg	☼	99	61 - 124	8	30
Pyrene	0.40		1.60	1.80		mg/Kg	☼	87	60 - 115	6	30
Butyl benzyl phthalate	<0.20		1.60	1.34		mg/Kg	☼	84	61 - 115	0	30
Benzo[a]anthracene	0.20		1.60	1.62		mg/Kg	☼	89	63 - 115	5	30
Chrysene	0.25		1.60	1.57		mg/Kg	☼	83	63 - 118	4	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-121567-1 MSD
Matrix: Solid
Analysis Batch: 366915

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: Total/NA
Prep Batch: 366823

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
3,3'-Dichlorobenzidine	<0.20		1.60	1.13		mg/Kg	☼	71	40 - 110	4	30
Bis(2-ethylhexyl) phthalate	<0.20		1.60	1.49		mg/Kg	☼	93	62 - 117	6	30
Di-n-octyl phthalate	<0.20		1.60	1.48		mg/Kg	☼	92	58 - 129	0	30
Benzo[b]fluoranthene	0.30		1.60	1.84		mg/Kg	☼	96	61 - 123	7	30
Benzo[k]fluoranthene	0.11		1.60	1.60		mg/Kg	☼	93	59 - 125	1	30
Benzo[a]pyrene	0.20		1.60	1.57		mg/Kg	☼	86	64 - 122	2	30
Indeno[1,2,3-cd]pyrene	0.11		1.60	1.16		mg/Kg	☼	65	50 - 149	8	30
Dibenz(a,h)anthracene	0.038	J	1.60	1.13		mg/Kg	☼	68	61 - 134	9	30
Benzo[g,h,i]perylene	0.12		1.60	1.07		mg/Kg	☼	60	55 - 134	6	30
3 & 4 Methylphenol	<0.20		1.60	1.27		mg/Kg	☼	79	55 - 124	10	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorophenol	85		40 - 130								
Phenol-d5	79		36 - 123								
Nitrobenzene-d5	75		33 - 124								
2-Fluorobiphenyl	82		42 - 115								
2,4,6-Tribromophenol	96		25 - 130								
Terphenyl-d14	94		25 - 150								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-366081/1-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366081

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Arsenic	<1.0		1.0	0.46	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Barium	<1.0		1.0	0.18	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Beryllium	<0.40		0.40	0.087	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Boron	<5.0		5.0	0.70	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Cadmium	<0.20		0.20	0.058	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Calcium	<20		20	6.4	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Chromium	0.320	J	1.0	0.17	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Cobalt	<0.50		0.50	0.11	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Copper	<1.0		1.0	0.22	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Iron	<20		20	7.7	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Lead	<0.50		0.50	0.25	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Magnesium	<10		10	4.1	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Manganese	<1.0		1.0	0.20	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Nickel	<1.0		1.0	0.27	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Potassium	<50		50	8.2	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Selenium	<1.0		1.0	0.50	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Silver	<0.50		0.50	0.12	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Sodium	<100		100	13	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Thallium	<1.0		1.0	0.49	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Vanadium	<0.50		0.50	0.15	mg/Kg		12/21/16 08:13	12/23/16 22:47	1
Zinc	<2.0		2.0	0.63	mg/Kg		12/21/16 08:13	12/23/16 22:47	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Lab Sample ID: LCS 500-366081/2-A
Matrix: Solid
Analysis Batch: 366688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366081
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.8		mg/Kg		98	80 - 120
Arsenic	10.0	9.47		mg/Kg		95	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	5.11		mg/Kg		102	80 - 120
Boron	100	94.2		mg/Kg		94	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Calcium	1000	999		mg/Kg		100	80 - 120
Chromium	20.0	20.7		mg/Kg		103	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	25.0	25.0		mg/Kg		100	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.99		mg/Kg		100	80 - 120
Magnesium	1000	987		mg/Kg		99	80 - 120
Manganese	50.0	52.1		mg/Kg		104	80 - 120
Nickel	50.0	50.1		mg/Kg		100	80 - 120
Potassium	1000	895		mg/Kg		89	80 - 120
Selenium	10.0	9.15		mg/Kg		91	80 - 120
Silver	5.00	4.86		mg/Kg		97	80 - 120
Sodium	1000	943		mg/Kg		94	80 - 120
Thallium	10.0	9.75		mg/Kg		97	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-366673/2-A
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366673
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.498		mg/L		100	80 - 120

Lab Sample ID: LCS 500-366678/2-A
Matrix: Solid
Analysis Batch: 366936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366678
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.518		mg/L		104	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.934		mg/L		93	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Iron	1.00	1.14		mg/L		114	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Manganese	0.500	0.505		mg/L		101	80 - 120
Nickel	0.500	0.508		mg/L		102	80 - 120
Selenium	0.100	0.0926		mg/L		93	80 - 120
Silver	0.0500	0.0479		mg/L		96	80 - 120
Zinc	0.500	0.504		mg/L		101	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-366553/1-B
Matrix: Solid
Analysis Batch: 366936

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366678

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 14:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/27/16 08:29	12/28/16 14:39	1
Boron	<0.50		0.50	0.050	mg/L		12/27/16 08:29	12/28/16 14:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/27/16 08:29	12/28/16 14:39	1
Chromium	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 14:39	1
Cobalt	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 14:39	1
Iron	<0.40		0.40	0.20	mg/L		12/27/16 08:29	12/28/16 14:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/27/16 08:29	12/28/16 14:39	1
Manganese	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 14:39	1
Nickel	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 14:39	1
Selenium	<0.050		0.050	0.020	mg/L		12/27/16 08:29	12/28/16 14:39	1
Silver	<0.025		0.025	0.010	mg/L		12/27/16 08:29	12/28/16 14:39	1
Zinc	<0.50		0.50	0.020	mg/L		12/27/16 08:29	12/28/16 14:39	1

Lab Sample ID: LB 500-366546/1-B
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 366673

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/27/16 08:26	12/28/16 05:28	1

Lab Sample ID: 500-121567-10 MS
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-32-B02 (6-12)
Prep Type: SPLP East
Prep Batch: 366673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.59	F1	0.500	0.716	F1	mg/L		25	50 - 150

Lab Sample ID: 500-121567-10 DU
Matrix: Solid
Analysis Batch: 366836

Client Sample ID: 1314V3-32-B02 (6-12)
Prep Type: SPLP East
Prep Batch: 366673

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.59	F1	0.440	F3	mg/L		29	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-366678/2-A
Matrix: Solid
Analysis Batch: 366841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.466		mg/L		93	80 - 120
Thallium	0.100	0.0992		mg/L		99	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-366553/1-B
Matrix: Solid
Analysis Batch: 366841

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366678

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/27/16 08:29	12/27/16 22:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/27/16 08:29	12/27/16 22:37	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-366733/12-A
Matrix: Solid
Analysis Batch: 366891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:39	1

Lab Sample ID: LCS 500-366733/13-A
Matrix: Solid
Analysis Batch: 366891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366733
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00181		mg/L		90	80 - 120

Lab Sample ID: LB 500-366553/1-C
Matrix: Solid
Analysis Batch: 366891

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 366733

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/27/16 11:30	12/28/16 09:42	1

Lab Sample ID: 500-121567-1 MS
Matrix: Solid
Analysis Batch: 366891

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: TCLP
Prep Batch: 366733
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000794		mg/L		79	50 - 150

Lab Sample ID: 500-121567-1 DU
Matrix: Solid
Analysis Batch: 366891

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: TCLP
Prep Batch: 366733
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-366140/12-A
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		12/21/16 14:45	12/22/16 10:31	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-366140/13-A
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.140		mg/Kg		84	80 - 120

Lab Sample ID: 500-121567-1 MS
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: Total/NA
Prep Batch: 366140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.27	F1	0.102	0.361		mg/Kg	☼	86	75 - 125

Lab Sample ID: 500-121567-1 MSD
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: Total/NA
Prep Batch: 366140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.27	F1	0.0969	0.333	F1	mg/Kg	☼	62	75 - 125	8	20

Lab Sample ID: 500-121567-1 DU
Matrix: Solid
Analysis Batch: 366345

Client Sample ID: 1314V3-32-B06 (0-3)
Prep Type: Total/NA
Prep Batch: 366140

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.27	F1	0.259		mg/Kg	☼	5	20

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 05:41	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:35	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 22:51	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858		SMO	TAL CHI
					(Start)	12/27/16 12:32		
					(End)	12/27/16 12:40		
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B06 (0-3)

Lab Sample ID: 500-121567-1

Date Collected: 12/15/16 13:25

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365878	12/20/16 19:07	BDW	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 23:29	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:31	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 10:41	MJD	TAL CHI

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 05:48	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:40	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366841	12/27/16 22:54	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:40 (End) 12/27/16 12:49	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B05 (0-3)

Lab Sample ID: 500-121567-2

Date Collected: 12/15/16 13:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365878	12/20/16 19:32	BDW	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 23:04	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:37	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:00	MJD	TAL CHI

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:11	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:45	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 22:57	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:49 (End) 12/27/16 12:57	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B04 (0-6)

Lab Sample ID: 500-121567-3

Date Collected: 12/15/16 14:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365878	12/20/16 19:58	BDW	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 19:44	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:44	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:02	MJD	TAL CHI

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:49	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 23:01	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 12:57 (End) 12/27/16 13:06	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B04 (6-12)

Lab Sample ID: 500-121567-4

Date Collected: 12/15/16 14:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	365878	12/20/16 20:23	BDW	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 20:09	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:51	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:24	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:54	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 23:04	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858		SMO	TAL CHI
					(Start)	12/27/16 13:06		
					(End)	12/27/16 13:14		
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B01 (0-6)

Lab Sample ID: 500-121567-5

Date Collected: 12/15/16 14:35

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 15:21	JMP	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 22:15	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 00:58	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:06	MJD	TAL CHI

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:31	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 12:59	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366841	12/27/16 23:08	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 13:14 (End) 12/27/16 13:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B01 (6-12)

Lab Sample ID: 500-121567-6

Date Collected: 12/15/16 14:40

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366259	12/22/16 17:46	BDW	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 20:34	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 01:04	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:17	MJD	TAL CHI

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:38	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 13:04	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 23:11	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 09:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 13:23 (End) 12/27/16 13:31	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B03 (0-6)

Lab Sample ID: 500-121567-7

Date Collected: 12/15/16 15:10

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 16:12	JMP	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 22:39	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 01:11	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:19	MJD	TAL CHI

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:44	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 13:09	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 23:15	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 10:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 13:31 (End) 12/27/16 13:40	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B03 (6-12)

Lab Sample ID: 500-121567-8

Date Collected: 12/15/16 15:15

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 16:38	JMP	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 20:59	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 01:34	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:22	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:51	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 13:22	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6020A		1	366841	12/27/16 23:18	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 10:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 13:40 (End) 12/27/16 13:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B02 (0-6)

Lab Sample ID: 500-121567-9

Date Collected: 12/15/16 15:55

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 17:03	JMP	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 21:24	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 01:41	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:24	MJD	TAL CHI

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			366546	12/23/16 11:03	RMP	TAL CHI
SPLP East	Prep	3010A			366673	12/27/16 08:26	JEF	TAL CHI
SPLP East	Analysis	6010B		1	366836	12/28/16 06:58	PJ1	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI
TCLP	Analysis	6010B		1	366936	12/28/16 13:26	KML	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	3010A			366678	12/27/16 08:29	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	366841	12/27/16 23:22	FXG	TAL CHI
TCLP	Leach	1311			366553	12/23/16 13:00	RMP	TAL CHI
TCLP	Prep	7470A			366733	12/27/16 11:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	366891	12/28/16 10:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	366858	(Start) 12/27/16 13:48 (End) 12/27/16 13:57	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	365954	12/20/16 14:25	LWN	TAL CHI

Client Sample ID: 1314V3-32-B02 (6-12)

Lab Sample ID: 500-121567-10

Date Collected: 12/15/16 16:00

Matrix: Solid

Date Received: 12/16/16 09:40

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			365670	12/16/16 14:45	WRE	TAL CHI
Total/NA	Analysis	8260B		1	366061	12/21/16 17:29	JMP	TAL CHI
Total/NA	Prep	3541			366823	12/28/16 07:19	STW	TAL CHI
Total/NA	Analysis	8270D		1	366915	12/28/16 21:49	AJD	TAL CHI
Total/NA	Prep	3050B			366081	12/21/16 08:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	366688	12/24/16 01:47	KML	TAL CHI
Total/NA	Prep	7471B			366140	12/21/16 14:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	366345	12/22/16 11:26	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - I-74 - WO 046

TestAmerica Job ID: 500-121567-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-121567 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-121567
Chain of Custody Number: EE4643
Page _____ of _____
Temperature °C of Cooler: 14

Client		Client Project #		Preservative		Parameter										Preservative Key	
EE		1009008-046-01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments	
E74		50012744		Date Time		Matrix											
Project Location/State		Lab Project #															
Rock Island County, IL		50012744															
Sampler		Lab Proj															
S. Cooper		S. Cooper															
1	MS/MSD	1314V3-32-B06 (0-3)		12-15-16	1325	2	S	VOC									
2		1314V3-32-B05 (0-3)		12-15-16	1340	2	S	S VOC									
3		1314V3-32-B04 (0-6)		12-15-16	1410	2	S	Total TAC									
4		1314V3-32-B04 (6-12)		12-15-16	1415	2	S	metals									
5		1314V3-32-B01 (0-6)		12-15-16	1435	2	S	TOTAL TAC									
6		1314V3-32-B01 (6-12)		12-15-16	1440	2	S	metals									
7		1314V3-32-B03 (0-6)		12-15-16	1510	2	S	PH 9.0 Solid									
8		1314V3-32-B03 (6-12)		12-15-16	1515	2	S										
9		1314V3-32-B02 (0-6)		12-15-16	1555	2	S										
10		1314V3-32-B02 (6-12)		12-15-16	1600	2	S										

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>EE</u>	Date <u>12-15-16</u>	Time <u>1700</u>	Received By <u>[Signature]</u>	Company <u>DA-CHT</u>	Date <u>12/16/16</u>	Time <u>0940</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier _____
Shipped FedEx
Hand Delivered _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments _____

Lab Comments _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-121567-1

Login Number: 121567

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

