WSP ref.: 1009008.0093

June 03, 2021

Mr. James R. Curtis
Chief, Geologic and Waste Assessment Unit
Bureau of Design and Environment
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, IL 62764

IDOT Job No.: D-99-011-018
District: 9
County: Perry
Municipality: Pinckneyville
Route: FAP 42/FAU 841
Marked: IL 127/IL 154
Street: Not Listed
From To/At: Area surrounding the Pinckneyville Square

PTB: 172-027 (WSP [E&E]-8)
Work Order No.: 093
BDE Sequence No.: 21308
Requesting Agency: DOH
Contract No.: 78624
Section No.: (8,19,102)N-2
ISGS PESA No.: 3530
Anticipated Letting Date: Sept. 17, 2021
Target PSI Completion: June 11, 2021
IDOT Project Manager: Douglas Liniger

Dear Mr. Curtis:

Attached to this letter is the draft preliminary site investigation (PSI) prepared by WSP USA, Inc. for Work Order 093. If you have any questions regarding this submittal, please contact me at (630) 728-0934.

Kind regards,

Dean Tiebout
Program Manager
DT
Encl.
cc: Jeff Hughes, WSP

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SUITE 4200
CHICAGO, IL 60602
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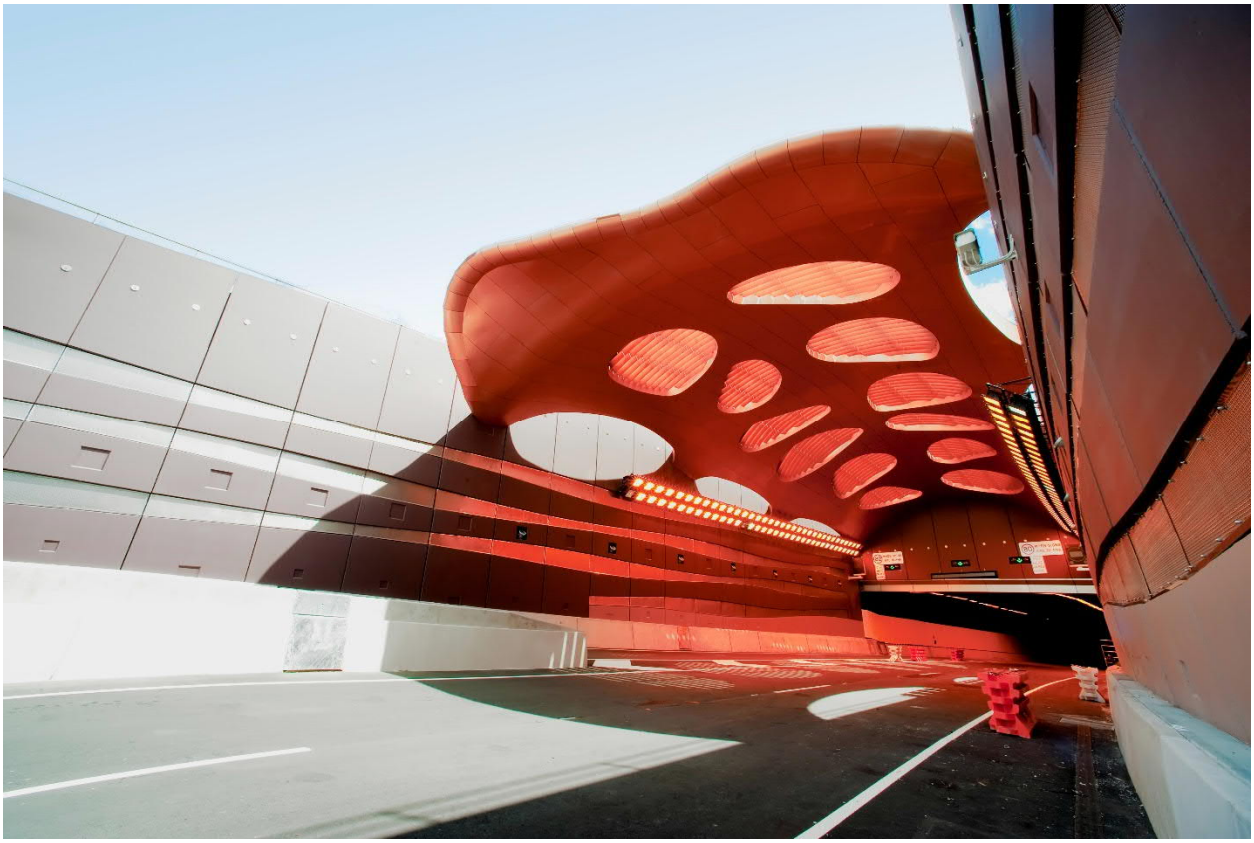
ILLINOIS DEPARTMENT OF TRANSPORTATION

PRELIMINARY SITE INVESTIGATION REPORT

FAP 42/FAP 841 (IL 127/IL 154)
PINCKNEYVILLE, PERRY COUNTY, ILLINOIS

JUNE 03, 2021



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PRELIMINARY SITE INVESTIGATION REPORT

FAP 42/FAP 841 (IL 127/IL 154) PINKNEYVILLE, PERRY COUNTY, ILLINOIS

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACT NO.: 172-027
WORK ORDER NO. 093
IDOT JOB NO.: D-99-011-018
BDE SEQUENCE NO.: 21308
SECTION NO.: (8,19,102)N-2
ROUTE: FAP 42/FAP 841
ISGS PESA NO.: 3530
ANTICIPATED LETTING DATE: SEPT. 17, 2021
CONTRACT NO.: 78624

DRAFT

DATE: JUNE 2021

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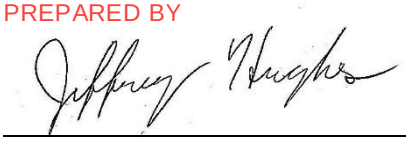
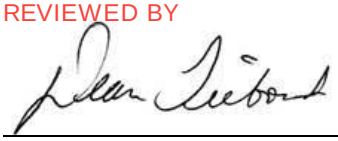
SIGNATURES

PREPARED BY



Jeffrey Hughes
Project Manager

REVIEWED BY



Dean Tiebout
Program Manager

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LIST OF ACRONYMS

bgs	below ground surface
CCDD	clean construction or demolition debris
CD-ROM	compact disk-read-only memory
COCs	contaminants of concern
E & E	Ecology and Environment, Inc.
GCGIER	groundwater component of the groundwater ingestion exposure route
GPS	global positioning system
IAC	Illinois Administrative Code
IDOT	Illinois Department of Transportation
ISGS	Illinois State Geological Survey
MACs	Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations
MEK	2-Butanone
MSA	metropolitan statistical area
NELAP	National Environmental Laboratory Accreditation Program
NRCS	Natural Resources Conservation Service
OSDs	Official Soil Series Descriptions
OSHA	Occupational Safety and Health Administration
PAHs	polycyclic aromatic hydrocarbons
PESA	Preliminary Environmental Site Assessment
PID	photoionization detector
PSI	preliminary site investigation
QC	quality control
RECs	recognized environmental conditions
ROs	remediation objectives

LIST OF ACRONYMS (CONT.)

ROW	right-of-way
SCGIER	soil component of the groundwater ingestion exposure route
SILR	Site Inspection Letter Report
SOPs	standard operating procedures
SPLP	synthetic precipitation leaching procedure
SU	standard units
SVOCs	semi-volatile organic compounds
TACO	Tiered Approach to Corrective Action Objectives
TCLP	toxicity characteristic leaching procedure
USFO	uncontaminated soil fill operation
UST	underground storage tank
VOCs	volatile organic compounds
WSP	WSP USA, Inc.
WSS	Web Soil Survey

1 INTRODUCTION

This preliminary site investigation (PSI) report was prepared for the Illinois Department of Transportation (IDOT) pursuant to Work Order 093 issued to WSP USA, Inc., (WSP) under the IDOT Work Order Agreement for Consultant Services, PTB No. 172-027— Various Statewide Waste Assessments, Studies and Designs. WSP was tasked by IDOT to conduct the PSI for proposed construction adjacent to IDOT right-of-way (ROW) along Illinois Routes 127 and 154 (IL 127 and IL 154) in Pinckneyville, Perry County, Illinois.

Field investigation activities were conducted by personnel from WSP and subconsultant Environmental Design International, Inc. (EDI) in April 2021. The objectives of the investigation as defined in the IDOT-approved work plan dated March 12, 2021 (WSP 2021) are as follows:

- Determine the magnitude and the lateral and vertical extent of potential soil contamination within existing and proposed IDOT ROW in the planned construction area. The impact of possible contamination on the uppermost groundwater unit will also be evaluated if groundwater is encountered during the investigation.
- Prepare a site investigation report with findings, conclusions, and recommendations as well as a remediation scope of work, based upon the results of chemical analysis of soil and groundwater samples. The remediation scope of work will include an estimate of contaminated soil excavation quantities and an associated estimated cost for remediation. If groundwater has been affected and sufficient data on the extent and source of contamination is available, remedial alternatives will be provided to implement cleanup.
- Assess the potential for surrounding IDOT ROW within the project area to be affected by contaminants migrating from affected areas and present recommendations to mitigate contaminant migration when the potential for migration is determined to be high.

This report presents the findings of WSP's investigation and consists of six sections. Section 2 provides pertinent site background information. Section 3 describes the procedures and sampling rationale used during the field investigation. Section 4 summarizes WSP's field investigation results, including observations, field measurements, sampling rationale, analytical results, and comparisons of the analytical results with regulatory standards. Section 5 provides conclusions of the investigation and recommendations for further investigation and contaminant migration reduction techniques, if necessary. Section 6 lists the references cited in this report.

2 SITE BACKGROUND

IDOT construction plans provided to WSP indicate that soil excavation is anticipated for the installation of traffic signals, storm sewers, light poles, curb installation, and road reconstruction. Excavation associated with the improvements is estimated to extend to a maximum depth of approximately 15 feet below ground surface (bgs). ROW acquisition, including full property takes, is proposed for this project.

The Illinois State Geological Survey (ISGS) conducted a preliminary environmental site assessment (PESA) of the project area to identify sites with recognized environmental conditions (RECs) that may potentially affect the project. Table 2-1 presents the sites identified by ISGS, along with identified RECs and the proposed IDOT construction activities at each site. Applicable background information about the sites, taken directly from ISGS PESA number 3530, is included in Appendix A. The site investigation area is shown on Figure 2-1.

3 FIELD INVESTIGATION RESULTS

WSP and EDI followed a project-specific investigative work plan (WSP 2021) in accordance with IDOT-approved standard operating procedures (SOPs) to achieve the objectives stated in Section 1 for the project area. The field investigation for this project included screening and sampling soil at the sites identified in Section 2. This section describes the procedures used for screening, sample collection, equipment decontamination, quality assurance, and sample custody.

3.1 SOIL BORING AND SAMPLING PROCEDURES

WSP advanced 31 borings in the proposed construction area using a truck-mounted Geoprobe® direct-push sampling device. A summary of the sampling and analysis program for this PSI is presented in Table 3-1. Individual boring locations are identified with a unique alpha-numeric identification code. The first part of the boring identification is the site number designated by ISGS in the PESA (e.g., ISGS site #3530-15 [Vacant Lot]). Following the ISGS site number is the boring identification number. Borings are numbered sequentially, with the initial boring at each site designated -B01 (e.g., for ISGS site #3530-15, the initial boring is designated -B01).

Before advancing the borings, WSP personnel marked the proposed boring locations at the site and completed utility clearance. WSP used a global positioning system (GPS) receiver to record the actual location of each boring upon its completion. A subcontractor (Lucky Locators, Inc.) was tasked to marked private utilities at sites proposed for full property takes (ISGS #3530-16, #3530-37, and #3530-39).

Based on information presented in PESA 3530, WSP and EDI conducted magnetometer surveys at the following sites to identify possible USTs within the project construction area:

- ISGS #3530-15
- ISGS #3530-16
- ISGS #3530-29
- ISGS #3530-30
- ISGS #3530-31
- ISGS #3530-34
- ISGS #3530-35
- ISGS #3530-37
- ISGS #3530-40
- ISGS #3530-47

After conducting visual surveys of the areas for fill pipes or other indicators of potential USTs, field personnel screened the existing IDOT ROW at each site using a Schonstedt Instrument Co. Model GA-52B Magnetic Locator. The survey was conducted by walking across the ROW in transects and sweeping the instrument from side to side with the tip of the instrument kept close to the ground. If a frequency tone indicative of buried metal was detected, the field team attempted to further delineate the anomaly to determine if it could potentially be an UST or associated piping. Survey findings are discussed in Section 4.

WSP's Geoprobe® was equipped with 2-inch diameter Macro-Core® samplers. WSP used either a 4-foot-long or a 5-foot-long Macro-Core®, depending on the proposed boring depth. Soil cores were collected from each boring by hydraulically pushing the Macro-Core® in 4- or 5-foot increments. WSP used a new PVC Macro-Core® liner for each sample interval and decontaminated the Macro-Core® sampler with an Alconox® and potable water solution between borings.

The field team used a calibrated photoionization detector (PID) to conduct headspace screening for volatile organic compounds (VOCs) on an aliquot of soil from each core in 2-foot intervals. The depth interval, recovery, soil description, headspace screening results, and any observations of staining and/or odors indicative of contamination were recorded for each Macro-Core® sample. Boring logs for this project are presented in Appendix B.

A total of 61 soil samples were collected from the project area for laboratory analysis, including three duplicate samples. The field team delivered samples to Eurofins TestAmerica Laboratories in University Park, Illinois (National Environmental Laboratory Accreditation Program [NELAP] number 100201) at the completion of sampling. Sample identification, documentation, and chain-of-custody were conducted in accordance with the approved SOPs during collection, transportation, storage, and analysis of samples.

3.2 GROUNDWATER SAMPLING PROCEDURES

Groundwater samples were proposed at six of the project sites; however, WSP did not encounter groundwater at any of the borings. Consequently, groundwater samples were not collected, and a discussion of groundwater impacts is not included in this report.

4 FIELD INVESTIGATION RESULTS

This section presents the results of WSP's field investigation and includes a discussion of project area geology and topography, significant field observations, sampling rationale, and laboratory analytical results relative to applicable criteria.

WSP's field observations and sample selection rationale are summarized by site and boring in Table 4-1. Soil samples collected for laboratory analysis were analyzed for VOCs, semi-volatile organic compounds (SVOCs), and total and toxicity characteristic leaching procedure (TCLP) metals listed in 35 Illinois Administrative Code (IAC) 1100, Subpart F. Selected samples were analyzed for individual metals by synthetic precipitation leaching procedure (SPLP) analysis, based on TCLP analysis results, as discussed below.

Laboratory results were reviewed by WSP for field and laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits. A discussion of the analytical results is presented below, and a summary of detected analytes is presented in Appendix C. Laboratory data packages, including WSP's data review, are included as Appendix D.

The maximum detected concentrations of analytes in soil and a comparison with applicable reference concentrations are presented by site in Table 4-2. The detected analyte concentrations in soil are compared with the Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MACs) presented in 35 IAC 1100, Subpart F and TACO Tier 1 Remediation Objectives (ROs) for residential ingestion and inhalation exposure presented in 35 IAC 742, Appendix B, Table A. When the MAC for an inorganic analyte is based on the Tiered Approach to Corrective Action Objectives (TACO) Class I soil component of the groundwater ingestion exposure route (SCGIER) presented in 35 IAC 742, Appendix B, Table C, the total concentration for the analyte is compared with the MAC, and the results of TCLP and SPLP analyses are independently compared with the TACO Class I SCGIER for the analyte found in 35 IAC 742, Appendix B, Table A. The analyte is considered to exceed the MAC if the total, TCLP, and SPLP results all exceed the applicable criteria.

When the MAC for a constituent is location-specific, the detected constituent concentration is also compared with the MAC for a metropolitan statistical area (MSA). Location-specific MACs have been established for arsenic, iron, manganese, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Analytes detected at concentrations above applicable reference concentrations are considered contaminants of concern (COCs). Table 4-3 presents a summary of COCs identified by boring and sample for each site.

WSP also evaluated sample pH levels and the results of PID headspace screening pursuant to 35 IAC 1100.201(g) and 205(b)(1), respectively. Soil pH must be between 6.25 and 9.0 standard units (SU) in order for the soil to be accepted at a clean construction or demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO). In addition, loads of soil exhibiting PID readings above background cannot be accepted by a CCDD facility or USFO.

When one or more COCs are detected in a boring, aggregate areas of impacted soil are delineated without regard for property boundaries or planned excavation activities. The areal extent of impacted soil at an individual boring is represented by a rectangle centered on the boring and extending from the centerline of the roadway to the construction limit. The rectangle will extend laterally one-half the distance between the affected boring and the next adjacent boring that does not contain a COC. If no adjacent borings are present, the impacted area will extend laterally 50 feet in each direction.

When the estimated impacted area at a boring extends to an adjacent site, the impacts are also assumed for the applicable area of the adjacent site in the calculation of impacted construction quantities. The impacted soil excavation quantities for construction are calculated based on the assumption that the impacted soil extends from the ground surface to the proposed excavation depth for the construction feature within the impacted area.

WSP's field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the site information presented in ISGS PESA #3530. Consequently, the findings and conclusions of this investigation are subject to revision if more site data become available.

4.1 PROJECT AREA GEOLOGY AND TOPOGRAPHY

WSP advanced 31 soil borings for this project to depths ranging from approximately 2 to 15 feet bgs. Observations of subsurface materials in the project area are described for each of the soil borings in Appendix B. The following information was provided by ISGS PESA #3530:

> *The uppermost bedrock in the project area consists of the Pennsylvanian-age Shelburn-Patoka Formation. The Shelburn-Patoka Formation is composed of claystones and mudstones interbedded with sandstones and coal and limestone beds.*
>
> *The total thickness of surficial deposits in the project area has been mapped as approximately 20 to 50 feet. The topmost surficial unit has been mapped as greater than 20 feet of loamy and sandy glacial deposits of the Glasford Formation, which overlie bedrock.*
>
> *None of the soils along the project ROW have been classified as containing more than 33% hydric components or as non-prime farmland soils by the Natural Resources Conservation Service (NRCS).*
>
> *Illinois Coal Mine Maps of Perry Country and ISGS Online Coal Maps of the Pinckneyville quadrangle indicate that coal mining has taken place in the project area. These maps indicate that the nearest former mine is located southeast of the project limits. This mine was operated by the John H. Schulze Company (Schulze Mine) From pre-1881 to 1889. This mine worked the Herrin coal seam by an unspecified method. Depth of the coal ranged from approximately 35 to 72 feet. The production shaft for this mine is located approximately 0.12 miles southeast of the nearest project limits. The project east of Locust Street is undermined by an unspecified method, and therefore may be subject to subsidence.*

Surficial drainage in the project area is generally toward the north, in the direction of an unnamed tributary to the Beaucoup Creek. However, since the project area is urbanized, and storm drains and sewers are present, most surficial runoff will be controlled by the storm sewer system; such systems typically are designed to follow natural drainage patterns.

The stratigraphy of the boreholes advanced during WSP's investigation revealed fill material in 18 of 31 soil borings. The fill consisted of topsoil, sand, gravel, clay, debris, and ranged in thickness from 0.3 to 8 feet. Native materials encountered during the investigation consisted of brown silty clay consistent with the Glassford formation. Groundwater was not encountered in any of the borings advanced during this investigation.

4.2 ISGS #3530-15 (VACANT LOT)

4.2.1 FIELD OBSERVATIONS AT ISGS #3530-15

WSP advanced one boring (3530-15-B01) at ISGS #3530-15 (Vacant Lot) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

EDI conducted a magnetometer survey of the existing IDOT ROW along N. Main Street/IL 127 adjacent to ISGS #3530-15 (Vacant Lot) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.2.2 ANALYTICAL RESULTS FOR ISGS #3530-15

Neither VOCs nor SVOCs were detected in the site soil sample (see Table 4-2). Twenty-two metals were detected in the sample, and barium was detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the sample. The sample pH was 5.8 SU.

4.2.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-15

COCs were not identified at ISGS #3530-15 (see Table 4-3). Iron was detected in the sample at a concentration above MACs, but iron was not detected in the sample by TCLP analysis. VOCs were not detected during headspace screening of site soil; however, the sample pH was outside of the target range of 6.25 to 9.0 SU.

4.2.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-15

Construction activities anticipated at this site include curb and gutter installation and pavement removal. Excavations associated with the improvements are estimated to extend to a maximum depth of 2.3 feet bgs. The

proposed construction area and assumed areas of impact are shown on Figures 4-1 and 4-2. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.3 ISGS #3530-16 (VACANT LOT)

4.3.1 FIELD OBSERVATIONS AT ISGS #3530-16

WSP advanced 10 borings (3530-16-B01 through 3530-16-B10) at ISGS #3530-16 (Vacant Lot) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected two samples from each boring for laboratory analysis. A groundwater sample was proposed at the site; however, groundwater was not encountered in any of the site borings.

EDI conducted a magnetometer survey of the existing and proposed IDOT ROW along N. Main Street/ IL 127 and West Jackson Street/IL 127 adjacent to ISGS #3530-16 (Vacant Lot) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.3.2 ANALYTICAL RESULTS FOR ISGS #3530-16

Four VOCs were detected in the site samples, including acetone, methylene chloride, cis-1,2-dichloroethylene (cis-1,2-DCE), and tetrachloroethylene (PCE) (see Table 4-2). Fifteen SVOCs, all polycyclic aromatic hydrocarbons (PAHs), were detected at the site. Twenty-three metals were detected in the sample, and eight metals were detected by TCLP analysis. Based on the TCLP metals results, four samples were analyzed for SPLP lead, and lead was detected in each of the analyzed samples. The sample pH levels ranged from 4.5 to 8.2 SU.

4.3.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS # 3530-16

Benzo(a)pyrene, lead, and manganese were identified as COCs in soil at the site (see Table 4-3). Benzo(a)pyrene was detected in sample 3530-16-B05 (0-6) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs. Manganese was detected at concentrations above the MSA MAC, but below TACO Tier 1 Residential ROs in samples 3530-16-B06 (6-12), 3530-16-B08 (0-6), and 3530-16-B10 (0-6). Lead was also detected in sample 3530-16-B10 (0-6) above applicable reference concentrations by total, TCLP, and SPLP analyses. TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in samples 3530-16-B01 (0-6), 3530-16-B09 (0-6), and 3530-16-B10 (6-12); however, the total lead concentrations detected in the samples were below the MAC.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Chromium, selenium, silver, and thallium were each detected at a concentration above the MAC, but none of the analytes

were detected in the respective samples by TCLP analysis. Iron was detected in 11 samples at concentrations above MACs; however, detected TCLP iron concentrations were below the TACO Class 1 SCGIER. VOCs were not detected during headspace screening of site soil. The following borings had pH levels that were outside of the target range of 6.25 to 9.0 SU:

- 3530-16-B03
- 3530-16-B04
- 3530-16-B07
- 3530-16-B08
- 3530-16-B09

4.3.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-16

Construction activities anticipated at this site include curb and gutter installation and roadway construction. Excavations associated with the improvements are estimated to extend to a maximum depth of 3 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-2. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.3.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-16

IDOT plans include a full property take at ISGS #3530-16 (Vacant Lot). COCs were not detected above TACO Tier 1 ROs for residential soil at the site, and VOCs were not detected during headspace screening of soil associated with borings at the site. Consequently, WSP has not estimated a volume of impacted soil associated with property acquisition at the site.

4.4 ISGS #3530-18 (SHAMROCK REALTY)

4.4.1 FIELD OBSERVATIONS AT ISGS #3530-18

WSP advanced one boring (3530-18-B01) at ISGS #3530-18 (Shamrock Realty) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

4.4.2 ANALYTICAL RESULTS FOR ISGS #3530-18

VOCs were not detected in the site sample (see Table 4-2). Eleven SVOCs, primarily PAHs, were detected in the site sample. Twenty-two metals were detected in the sample, and five metals were detected by TCLP analysis. Based on the TCLP metals results, the sample was analyzed for SPLP lead, and lead was detected. The sample pH was 8.3 SU.

4.4.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-18

Lead was the lone COC identified in soil at the site (see Table 4-3). Lead was detected in the sample above applicable reference concentrations by total, TCLP, and SPLP analyses.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Iron was detected in the sample at a concentration above MACs; however, the detected TCLP iron concentration was below the TACO Class 1 SCGIER. VOCs were not detected during headspace screening of site soil and the sample pH was within the target range of 6.25 to 9.0 SU.

4.4.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-18

Construction activities anticipated at this site include curb and gutter installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 2.3 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-2. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.5 ISGS #3530-29 (SHEAR ATTITUDE HAIR & NAIL SALON)

4.5.1 FIELD OBSERVATIONS AT ISGS #3530-29

WSP advanced one boring (3530-29-B01) at ISGS #3530-29 (Sheer Attitude Hair & Nail Salon) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

EDI conducted a magnetometer survey of the existing IDOT ROW along West Jackson Street/IL 127 adjacent to ISGS #3530-29 (Sheer Attitude Hair & Nail Salon) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.5.2 ANALYTICAL RESULTS FOR ISGS #3530-29

VOCs were not detected in the site sample (see Table 4-2). One PAH, phenanthrene, was detected in the site sample. Twenty-one metals were detected in the sample, and barium and iron were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the sample. The sample pH was 8.2 SU.

4.5.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-29

COCs were not identified at ISGS #3530-29 (see Table 4-3). Iron was detected in the sample at a concentration above MACs; however, the detected TCLP iron concentration was below the TACO Class 1 SCGIER. VOCs were not detected during headspace screening of site soil and the sample pH was within the target range of 6.25 to 9.0 SU.

4.5.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-29

Construction activity anticipated at this site includes roadway construction. Excavations associated with the improvements are estimated to extend to a maximum depth of 2 feet bgs. The proposed construction areas and site analytical results are shown on Figures 4-1 and 4-2. Based on the analytical results, a volume of impacted soil was not estimated for the site.

4.6 ISGS #3530-30 (COMMERCIAL UNIT AND RESIDENTIAL SPACE)

4.6.1 FIELD OBSERVATIONS AT ISGS #3530-30

WSP advanced one boring (3530-30-B01) at ISGS #3530-30 (Commercial Unit and Residential Space) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit odors or discoloration indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

EDI conducted a magnetometer survey of the existing IDOT ROW along West Jackson Street/ IL 127 adjacent to ISGS #3530-30 (Commercial Unit and Residential Space) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.6.2 ANALYTICAL RESULTS FOR ISGS #3530-30

Neither VOCs nor SVOCs were detected in site soil (see Table 4-2). Twenty-one metals were detected in the sample, and barium, chromium, iron, and nickel were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the sample. The sample pH was 8.0 SU.

4.6.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-30

COCs were not identified at ISGS #3530-30 (see Table 4-3). Iron was detected in the sample at a concentration above MACs; however, the detected TCLP iron concentration was below the TACO Class 1 SCGIER. VOCs were

not detected during headspace screening of site soil and the sample pH was within the target range of 6.25 to 9.0 SU.

4.6.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-30

Construction activity anticipated at this site includes roadway construction. Excavation associated with the improvements are estimated to extend to a maximum depth of 2 feet bgs. The proposed construction areas and analytical results are shown on Figures 4-1 and 4-2. Based on the analytical results, a volume of impacted soil was not estimated for the site.

4.7 ISGS #3530-31 (PARKING LOT)

WSP advanced two borings (3530-31-B01 and 3530-31-B02) at ISGS #3530-31 (Parking Lot) (see Table 4-1 and Figure 4-1). PID headspace readings ranging from 0.5 to 24.5-meter units were detected in the 10- to 15-foot depth interval of the boring. Soils at approximately 7 feet bgs exhibited a slight odor indicative of potential chemical contamination, and greenish-brown soil was observed. EDI collected three samples from boring 3530-31-B01 for laboratory analysis, and two samples from boring 3530-31-B02. A duplicate sample was also collected at boring 3530-31-B01. A groundwater sample was proposed at the site; however, groundwater was not encountered in either of the site borings.

EDI conducted a magnetometer survey of the existing IDOT ROW along West Jackson Street/IL 127 and IL 154 adjacent to ISGS #3530-31 (Parking Lot) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.7.1 ANALYTICAL RESULTS FOR ISGS #3530-31

Acetone was the only VOC detected in site soil (see Table 4-2). SVOCs were not detected in the site samples. Twenty-two metals were detected in the samples, and seven metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for SPLP lead, and lead was detected. The sample pH levels ranged from 4.3 to 7.6 SU.

4.7.2 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-31

Lead was the lone COC identified in soil at the site (see Table 4-3). TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in sample 3530-31-B01 (10-15); however, the total lead concentration detected in the sample was below the MAC.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Iron was detected in four samples at concentrations above MACs; however, detected TCLP iron concentrations were below the TACO Class 1 SCGIER. VOCs were detected during headspace screening of boring 3530-31-B01, and the pH levels associated with soil at both of the borings were outside of the target range of 6.25 to 9.0 SU.

4.7.3 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-31

Construction activities anticipated at this site include roadway construction and curb and gutter, storm sewer, and traffic signal installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 15 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-2. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.8 ISGS #3530-34 (LOOS LAW OFFICE)

4.8.1 FIELD OBSERVATIONS AT ISGS #3530-34

WSP advanced one boring (3530-34-B01) at ISGS #3530-34 (Loos Law Office) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

EDI conducted a magnetometer survey of the existing IDOT ROW along West Walter Street/IL 13/IL 154 adjacent to ISGS #3530-34 (Loos Law Office) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.8.2 ANALYTICAL RESULTS FOR ISGS #3530-34

Neither VOCs nor SVOCs were detected in site soil (see Table 4-2). Twenty metals were detected in the sample, and barium, iron, and zinc were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the sample. The sample pH was 6.1 SU.

4.8.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-34

Arsenic and manganese were identified as COCs in soil at the site (see Table 4-3). Arsenic and manganese were detected in sample 3530-34-B01 (0-3) at concentrations above the respective MSA MACs and TACO Tier 1 ROs for residential soil ingestion.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Iron was detected above the MSA MAC; however, TCLP iron was not detected above the TACO Class 1 SCGIER. VOCs were not detected during headspace screening of site soil. The soil pH was outside of the target range of 6.25 to 9.0 SU.

4.8.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-34

Construction activities anticipated at this site include roadway and alley construction. Excavations associated with the improvements are estimated to extend to a maximum depth of 2.3 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-2. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.9 ISGS #3530-35 (MCDONALD'S)

4.9.1 FIELD OBSERVATIONS AT ISGS #3530-35

WSP advanced four borings (3530-35-B01 through 3530-35-B04) at ISGS #3530-35 (McDonald's) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected two samples each for laboratory analysis from borings 3530-35-B01 through 3530-35-B03, and one sample from boring 3530-35-B04. A duplicate sample was also collected from boring 3530-35-B03. A groundwater sample was proposed at the site; however, groundwater was not encountered in any of the borings conducted at the site.

EDI conducted a magnetometer survey of the existing and proposed IDOT ROW along West Walter Street/IL 154 and South Main Street/Il 127 adjacent to ISGS #3530-35 (McDonalds's) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.9.2 ANALYTICAL RESULTS FOR ISGS #3530-35

Eight VOCs were detected in site soil, including acetone, cis- and trans-1,2-DCE, ethylbenzene, PCE, toluene, trichloroethylene (TCE), and xylenes (see Table 4-2). Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-three metals were detected in the samples, and eight metals were detected by TCLP analysis. Based on the TCLP metals results, three samples were analyzed for SPLP cadmium and four samples were analyzed for SPLP lead. Cadmium was not detected, but lead was detected in each of the analyzed samples. The sample pH levels ranged from 7.1 to 8.5 SU.

4.9.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-35

PCE, TCE, benzo(a)pyrene, arsenic, lead, and manganese were identified as COCs in soil at the site (see Table 4-3). PCE and TCE were detected at concentrations above MACs in sample 3530-35-B02 (0-6). Benzo(a)pyrene was detected at concentrations above the most stringent MAC, but below the Chicago and MSA MACs in samples 3530-35-B01 (0-6), 3530-35-B02 (0-6), and 3530-35-B03 (0-6).

Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 3530-35-B01 (0-6), 3530-35-B02 (0-6), and 3530-35-B03 (0-6). Manganese was detected above the MSA MAC, but below TACO Tier 1 RO for residential soil exposure in samples 3530-35-B01 (0-6) and 3530-35-B03 (0-6). Arsenic was detected at a concentration above the most stringent MAC, but below the MSA MAC, in sample 3530-35-B03 (0-6). TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in sample 3530-35-B02 (6-12); however, the total lead concentration detected in the sample was below the MAC.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Boron, iron, and mercury were detected above MACs in one or more samples; however, the analytes were not detected in the samples above the respective TACO Class 1 SCGIER by TCLP analysis. VOCs were not detected during headspace screening of site soil and the pH levels for the samples were within the target range of 6.25 to 9.0 SU.

4.9.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-35

Construction activities anticipated at this site include road construction and curb and gutter, storm sewer, and traffic signal installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 3.3 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-3. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.9.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-35

IDOT plans include a partial property take at ISGS #3530-35 (McDonald's) in the area associated with borings 3530-35-B01, 3530-35-B02, and 3530-35-B03. The source of TCE and PCE detected above TACO Tier 1 ROs for the SCGIER are not known. The property is the location of an open LUST remediation, with recovery wells located within the proposed ROW. WSP has included costs for remediation of the impacted soil within the proposed ROW. Table 4-5 presents the estimated volume of impacted soil within the proposed property acquisition area at the site.

4.10 ISGS #3530-37 (VACANT LOT)

4.10.1 FIELD OBSERVATIONS AT ISGS #3530-37

WSP advanced two borings (3530-37-B01 and 3530-37-B02) at ISGS #3530-37 (Vacant Lot) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected two samples from each boring for laboratory analysis. A groundwater sample was proposed at the site; however, groundwater was not encountered in either of the site borings.

EDI conducted a magnetometer survey of the existing IDOT ROW along South Main Street/IL 13/IL 127 adjacent to ISGS #3530-37 (Vacant Lot) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.10.2 ANALYTICAL RESULTS FOR ISGS #3530-37

VOCs were not detected in site soil (see Table 4-2). Nine SVOCs, all PAHs, were detected in the site samples. Twenty-three metals were detected in the samples, and barium, boron, nickel, and zinc were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the samples. The sample pH levels ranged from 5.1 to 8.3 SU.

4.10.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-37

Arsenic was the only COC identified in soil at the site (see Table 4-3). Arsenic was detected at a concentration above the most stringent MAC, but below the MSA MAC in sample 3530-37-B02 (0-6).

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Iron was detected at concentrations above MACs; however, iron was not detected by TCLP analysis. VOCs were not detected during headspace screening of site soil. The pH levels associated with boring 3530-37-B02 were outside of the target range of 6.25 to 9.0 SU.

4.10.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-37

Construction activities anticipated at this site include road construction and curb and gutter, storm sewer, and light pole installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 6 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-3. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.10.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-37

IDOT plans include a full property take at ISGS #3530-37 (Vacant Lot). COCs were not detected above TACO Tier 1 ROs for residential soil at the site, and VOCs were not detected during headspace screening of soil associated with borings at the site. Consequently, WSP has not estimated a volume of impacted soil associated with property acquisition at the site.

4.11 ISGS #3530-39 (VACANT LOT)

4.11.1 FIELD OBSERVATIONS AT ISGS #3530-39

WSP advanced six borings (3530-39-B01 through 3530-39-B06) at ISGS #3530-39 (Vacant Lot) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected three samples for laboratory analysis from boring 3530-39-B01 and two samples each from the remaining borings. A duplicate sample was also collected from boring 3530-39-B06. A groundwater sample was proposed at the site; however, groundwater was not encountered in any of the site borings.

4.11.2 ANALYTICAL RESULTS FOR ISGS #3530-39

VOCs were not detected in soil at the site (see Table 4-2). Thirteen PAHs were detected in the site samples. Twenty-three metals were detected in the samples, and seven metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for SPLP lead and two samples were analyzed for SPLP cadmium. Neither analyte was detected. The sample pH levels ranged from 4.3 to 7.6 SU.

4.11.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-39

Arsenic and manganese were identified as COCs in site soil (see Table 4-3). Manganese was detected above the MSA MAC, but below TACO Tier 1 RO for residential soil exposure in samples 3530-39-B01 (0-5), 3530-39-B01 (5-10), 3530-39-B05 (0-6), and 3530-39-B05 (6-12). Arsenic was detected at a concentration above the most stringent MAC, but below the MSA MAC, in sample 3530-39-B02 (0-6).

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Chromium and iron were detected at concentrations above the MAC, but neither analyte was detected above the TACO Class 1 SCGIER by TCLP analysis. TCLP cadmium and lead were detected at concentrations above the TACO Class 1 SCGIER but, the analytes were not detected in the samples above applicable reference concentrations by total and SPLP analyses. VOCs were not detected during headspace screening of site soil. Soil at borings 3530-39-B01, 3530-39-B02, and 3530-39-B05 exhibited pH levels outside of the target range of 6.25 to 9.0 SU:

4.11.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-39

Construction activities anticipated at this site include roadway construction and curb and gutter, storm sewer, and traffic signal installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 15 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-3. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.11.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-39

IDOT plans include a full property take at ISGS #3530-39 (Vacant Lot). COCs were not detected above TACO Tier 1 ROs for residential soil at the site, and VOCs were not detected during headspace screening of soil associated with borings at the site. Consequently, WSP has not estimated a volume of impacted soil associated with property acquisition at the site.

4.12 ISGS #3530-40 (PERRY COUNTY JAIL AND SHERIFF'S OFFICE)

4.12.1 FIELD OBSERVATIONS AT ISGS #3530-40

WSP advanced one boring (3530-40-B01) at ISGS #3530-40 (Perry County Jail and Sheriff's Office) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected three samples from the boring for laboratory analysis. A groundwater sample was proposed at the site; however, groundwater was not encountered in the site boring.

EDI conducted a magnetometer survey of the existing IDOT ROW along IL 154 adjacent to ISGS #3530-40 (Perry County Jail and Sheriff's Office) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.12.2 ANALYTICAL RESULTS FOR ISGS #3530-40

Neither VOCs nor SVOCs were detected in site soil (see Table 4-2). Twenty-three metals were detected in the samples, and six metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was not performed on the samples. The sample pH levels ranged from 6.3 to 6.8 SU.

4.12.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-40

Manganese was the lone COC identified in soil at the site (see Table 4-3). Manganese was detected at a concentration above the MSA MAC and the TACO Tier 1 ROs for residential soil and construction worker exposure in sample 3530-40-B01 (10-15). Manganese was detected above the MSA MAC, but below TACO Tier 1 RO for residential soil exposure in sample 3530-40-B01 (0-5).

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Cobalt and iron were detected at concentrations above the respective MACs, but neither analyte was detected above the TACO Class 1 SCGIER by TCLP analysis. VOCs were not detected during headspace screening of site soil and the sample pH levels were within the target range of 6.25 to 9.0 SU.

4.12.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-40

Construction activities anticipated at this site include roadway construction and curb and gutter, storm sewer, and traffic signal installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 15 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-3. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.12.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-40

IDOT plans include a partial property take at ISGS #3530-40 (Vacant Lot). The manganese concentration detected in sample 3530-40-B01 (10-15) was above the TACO Tier 1 RO for residential properties; however, manganese is assumed to be associated with naturally occurring conditions in the site area, as discussed in Section 5. Consequently, it is not anticipated that remediation will be required for manganese.

4.13 ISGS #3530-47 (DAIRY QUEEN)

4.13.1 FIELD OBSERVATIONS AT ISGS #3530-47

WSP advanced one boring (3530-47-B01) at ISGS #3530-47 (Dairy Queen) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. EDI collected one sample from the boring for laboratory analysis.

EDI conducted a magnetometer survey of the existing and proposed IDOT ROW along South Main Street/Il 127 adjacent to ISGS #3530-47 (Dairy Queen) to screen for possible USTs within the proposed construction area. EDI did not observe anomalies or other evidence indicative of an UST during the survey.

4.13.2 ANALYTICAL RESULTS FOR ISGS #3530-47

VOCs were not detected in the site sample (see Table 4-2). One SVOC, phenanthrene, was detected in the site sample. Twenty-one metals were detected in the sample, and barium, chromium, iron, and nickel were detected by TCLP analysis. Based on the TCLP metals results, the sample was analyzed for chromium and nickel by SPLP and both analytes were detected. The sample pH was 8.0 SU.

4.13.3 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT ISGS #3530-47

Manganese was the lone COC identified in soil at the site (see Table 4-3). Manganese was detected in the sample at a concentration above the MSA MAC, but below TACO Tier 1 RO for residential soil exposure.

No other COCs were identified at the site based on the evaluation criteria presented in Section 4.0. Chromium and nickel were detected by TCLP analysis at concentrations above their respective TACO Class 1 SCGIER but neither analyte was detected above applicable reference concentrations by total and SPLP analyses. VOCs were not detected during headspace screening of site soil and the sample pH levels were within the target range of 6.25 to 9.0 SU.

4.13.4 IDOT CONSTRUCTION ACTIVITIES AT ISGS #3530-47

Construction activities anticipated at this site include road construction and curb and gutter and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 3 feet bgs. The assumed areas of impact and COCs are shown on Figures 4-1 and 4-3. Table 4-4 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

4.13.5 IDOT PROPERTY ACQUISITION AT ISGS #3530-47

IDOT plans include a partial property take at ISGS #3530-16 (Vacant Lot). COCs were not detected above TACO Tier 1 ROs for residential soil at the site, and VOCs were not detected during headspace screening of soil associated with borings at the site. Consequently, WSP has not estimated a volume of impacted soil associated with property acquisition at the site.

5 CONCLUSIONS AND RECOMMENDATIONS

WSP's investigation has identified COCs in project area soils. The following sections summarize WSP's investigation findings and recommendation for classification and management of impacted soil based on the comparison with MACs and TACO Tier 1 ROs. WSP has included an uncontaminated soil certification form in Appendix E for each site where soil was found to meet the criteria for off-site management at a CCDD facility or USFO.

The field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the known history of the property. Consequently, the findings and conclusion of this investigation are subject to revision if more site data becomes available. Soil removed from outside the investigation area that exhibits discoloration or odor indicative of contamination should be sampled to determine the proper disposal classification.

WSP performed a desktop evaluation for natural and anthropogenic sources of manganese in the project area as part of the work plan for the project (WSP 2021). WSP reviewed the native soil types within the proposed construction area using the NRCS Web Soil Survey (WSS) and the NRCS Official Soil Series Descriptions (OSDs). The WSS area of interest and applicable OSDs are included in Appendix A.

The primary soil types identified at the sites are the Stoy Silt loams, 0 to 2 percent slopes and 2-5 percent slopes, and the Homan silty clay loam, 5 to 10 percent slopes, severely eroded. Soil horizons within the Stoy silt loams are described as containing brown (10YR 4/3) and yellowish brown (10YR 5/4) silt loam with few to many fine iron-manganese concretions throughout. Soil horizons in the Homan silty clay loam are described as having few fine distinct spherical weakly cemented black (10 YR 2/1) iron-manganese concretions with sharp boundaries throughout.

WSP's evaluation did not identify manganese-related RECs at the sites, or other anthropogenic sources in the area. Consequently, native soils are anticipated to be the primary source of manganese detected in the investigative samples.

5.1 ESTIMATED SOIL MANAGEMENT VOLUMES AND COSTS

5.1.1 ISGS #3530-15 (VACANT LOT)

COCs were not identified in soil at ISGS #3530-15 (Vacant Lot). VOCs were not detected during headspace screening of site soil; however, the soil pH was outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-15-B01 (pH) may be managed on-site as fill. If it cannot be managed on-site, the soil may be managed off-site as "uncontaminated soil" according to Article 202.03 of the IDOT *Standard Specifications for Road and Bridge Construction*, but it cannot be taken to a CCDD or USFO.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 19 cubic yards of soil estimated for excavation at the site may be managed within IDOT ROW as uncontaminated soil but may not be taken to a CCDD facility or USFO.

5.1.2 ISGS #3530-16 (VACANT LOT)

Manganese, lead, and benzo(a)pyrene were identified as COCs in soil at ISGS #3530-16 (Vacant Lot). VOCs were not detected during headspace screening of site soil; however, five borings had soil pH levels outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with borings 3530-16-B09 (pH and TCLP/SPLP lead) and 3530-16-B10 (lead and manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings.

Soil associated with boring 3530-16-B01 (TCLP/SPLP lead) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with boring 3530-16-B05 (benzo(a)pyrene) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with borings 3530-16-B03 (pH) and 3530-16-B04 (pH) may be managed on-site as fill. If it cannot be managed on-site, the soil may be managed off-site as "uncontaminated soil" according to Article 202.03, but it cannot be taken to a CCDD or USFO.

Soil associated with borings 3530-16-B06 (manganese) and 3530-16-B08 (pH, manganese) may be managed within IDOT ROW as "uncontaminated soil" according to Article 202.03, but it cannot be taken to a CCDD or USFO.

Soil associated with boring 3530-16-B02 may be managed without restriction.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 278 cubic yards of soil proposed for excavation at the site will require off-site disposal as non-special waste if it cannot be managed on-site and 152 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO if it cannot be managed on-site. Approximately 657 cubic yards of soil at the site may be managed off-site as uncontaminated soil but cannot go to a CCDD facility or USFO.

5.1.3 ISGS #3530-18 (SHAMROCK REALTY)

Lead was the only COC identified in soil at ISGS #3530-18 (Shamrock Realty). VOCs were not detected during headspace screening of site soil, and the soil pH levels were within the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-18-B01 (lead) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 3 cubic yards of soil proposed for excavation at the site will require off-site disposal as non-special waste if it cannot be managed on-site.

5.1.4 ISGS #3530-29 (SHEAR ATTITUDE HAIR & NAIL SALON)

COCs were not identified in soil at ISGS #3530-29 (Shear Attitude Hair & Nail Salon). VOCs were not detected during headspace screening of site soil, and the soil pH was within the acceptable range for management at a CCDD facility or USFO. Soil associated with the site may be managed without restriction. Consequently, WSP has not estimated a cost for off-site management of soil from ISGS #3530-29 (Shear Attitude Hair & Nail Salon).

5.1.5 ISGS #3530-30 (COMMERCIAL UNIT AND RESIDENTIAL SPACE)

COCs were not identified in soil at ISGS #3530-30 (Commercial Unit and Residential Space). VOCs were not detected during headspace screening of site soil, and the soil pH was within the acceptable range for management at a CCDD facility or USFO. Soil associated with the site may be managed without restriction. Consequently, WSP has not estimated a cost for off-site management of soil from ISGS #3530-30 (Commercial Unit and Residential Space).

5.1.6 ISGS #3530-31 (PARKING LOT)

Lead was the lone COC identified in soil at ISGS #3530-31 (Parking Lot). VOCs were detected during headspace screening of site soil, and pH levels associated with soil at both borings were outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-31-B01 (pH, VOCs, TCLP/SPLP lead) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

COCs were not identified in soil associated with boring 3530-31-B02 (pH); however, the soil pH is outside of the acceptable range for management at a CCDD facility or USFO. Soil associated with the boring may be managed on-site as fill. If it cannot be managed on-site, the soil may be managed off-site as "uncontaminated soil" according to Article 202.03, but it cannot be taken to a CCDD or USFO.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 178 cubic yards of soil estimated for excavation at the site will require off-site disposal as non-special waste, and 98 cubic yards of soil at the site may be managed off-site as uncontaminated soil, but cannot go to a CCDD facility or USFO.

5.1.7 ISGS #3530-34 (LOOS LAW OFFICE)

Arsenic and manganese were identified as COCs in soil at ISGS #3530-34 (Loos Law Office). VOCs were not detected during headspace screening of site soil; however, the soil pH was outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-34-B01 (arsenic, manganese, pH) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 14 cubic yards of soil estimated for excavation at the site must be managed off-site as non-special waste.

5.1.8 ISGS #3530-35 (MCDONALD'S)

TCE, PCE, benzo(a)pyrene, lead, arsenic, and manganese were identified as COCs in soil at ISGS #3530-35 (McDonald's). VOCs were not detected during headspace screening of site soil, and the soil pH levels were within the acceptable range for management at a CCDD facility or USFO.

Soil associated with borings 3530-35-B01 (benzo(a)pyrene, lead, and manganese), 3530-35-B02 (TCE, PCE, benzo(a)pyrene, and lead) and 3530-35-B03 (benzo(a)pyrene, arsenic, lead, and manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings.

COCs were not identified in soil associated with boring 3530-35-B04. Soil associated with the boring may be managed without restriction.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 152 cubic yards of soil estimated for excavation at the site must be managed off-site as non-special waste.

IDOT construction plans include ROW acquisition at ISGS #3530-35 (McDonald's). The estimated volume of impacted soil associated with ROW acquisition is presented in Table 4-5. WSP estimates that approximately 194 cubic yards of soil within the proposed ROW and outside of the proposed excavation areas will require remediation for PCE and TCE.

5.1.9 ISGS #3530-37 (VACANT LOT)

Arsenic was the only COC identified in soil at ISGS #3530-37 (Vacant Lot). VOCs were not detected during headspace screening of site soil; however, the pH levels associated with soil at one boring was outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-37-B02 (pH and arsenic) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

COCs were not identified in soil associated with boring 3530-37-B01. Soil associated with the boring may be managed without restriction.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 231 cubic yards of soil proposed for excavation at the site will require off-site disposal as non-special waste if it cannot be managed on-site.

5.1.10 ISGS #3530-39 (VACANT LOT)

Manganese and arsenic were identified as COCs in soil at ISGS #3530-39 (Vacant Lot). VOCs were not detected during headspace screening of site soil; however, the pH levels associated with three of the borings were outside the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-39-B02 (pH and arsenic) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Soil associated with borings 3530-39-B01 (manganese, pH) and 3530-39-B05 (manganese, pH) may be managed within IDOT ROW as "uncontaminated soil" according to Article 202.03, but it cannot be taken to a CCDD or USFO.

COCs were not identified in soil associated with borings 3530-39-B03, 3530-39-B04, and 3530-39-B06. Soil associated with these borings may be managed without restriction.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 84 cubic yards of soil proposed for excavation at the site will require off-site disposal as non-special waste if it cannot be managed on-site, and 274 cubic yards of soil at the site may be managed off-site as uncontaminated soil, but cannot go to a CCDD facility or USFO.

5.1.11 ISGS #3530-40 (PERRY COUNTY JAIL AND SHERIFF'S OFFICE)

Manganese was the only COC identified in soil at ISGS #3530-40 (Perry County Jail and Sheriff's Office). VOCs were not detected during headspace screening of site soil, and the pH associated with the boring was within the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-40-B01 (manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 82 cubic yards of soil proposed for excavation at the site must be disposed off-site as non-special waste.

IDOT construction plans include ROW acquisition at ISGS #3530-40 (Perry County Jail and Sheriff's Office); however, costs have not been estimated for remediation of manganese at the site.

5.1.12 ISGS #3530-47 (DAIRY QUEEN)

Manganese was the only COC identified in soil at ISGS #3530-47 (Dairy Queen). VOCs were not detected during headspace screening of site soil, and the pH associated with the boring was within the acceptable range for management at a CCDD facility or USFO.

Soil associated with boring 3530-47-B01 (manganese) may be managed within IDOT ROW as "uncontaminated soil" according to Article 202.03, but it cannot be taken to a CCDD or USFO.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-4, WSP estimates that approximately 95 cubic yards of soil at the site may be managed off-site as uncontaminated soil but cannot go to a CCDD facility or USFO.

5.2 SOIL MANAGEMENT AREAS AND APPLICABLE REGULATIONS

The following soil excavation areas should be managed in accordance with Article 669 of IDOT's Supplemental Specifications and Recurring Special Provisions as shown below.

5.2.1 ISGS #3530-15 (VACANT LOT)

ISGS Site 3530-15 (Vacant building, 0-99 block of W. Jackson Street, Pinckneyville, Perry County, Illinois)
Station 4+66 to Station 5+00 (W Jackson St), 0 to 262 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(b)(1). COC sampling parameter: pH.

5.2.2 ISGS #3530-16 (VACANT LOT)

ISGS Site 3530-16 (Vacant lot, 0-99 block of E. Jackson Street, Pinckneyville, Perry County, Illinois)
Station 22+58 to Station 22+87 (E. Jackson St), 0 to 40 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(2). COC sampling parameters: lead.

Station 3+55 to Station 4+67 (W. Jackson St), 0 to 82 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(1). COC sampling parameters: pH, lead, manganese.

Station 0+62 to Station 1+20 (N. Main St/IL 127), 0 to 78 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameters: pH, manganese.

Station 0+62 to Station 1+20 (N. Main St/IL 127), 78 to 141 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(b)(1). COC sampling parameter: pH.

Station 1+20 to Station 1+80 (N. Main St/IL 127), 0 to 141 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(b)(1). COC sampling parameter: pH.

Station 1+80 to Station 2+40 (N. Main St/IL 127), 0 to 78 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameter: manganese.

Station 1+80 to Station 2+40 (N Main St/IL 127), 78 to 141 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(3). COC sampling parameter: benzo(a)pyrene.

5.2.3 ISGS #3530-18 (SHAMROCK REALTY)

ISGS Site 3530-18 (Commercial building, 9-11 E. Jackson Street, Pinckneyville, Perry County, Illinois)
Station 22+30 to Station 22+58 (E Jackson St), 0 to 37 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(1). COC sampling parameter: lead.

5.2.4 ISGS #3530-31 (PARKING LOT)

ISGS Site 3530-31 (Parking lot, 0-99 block of N. Main Street, Pinckneyville, Perry County, Illinois)
Station 1+13 to Station 2+20 (E Water St), 0 to 55 feet RT: (E Water St): The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(5). COC sampling parameters: lead, VOCs, pH.

Station 1+54 to Station 2+27 (N Main St), 0 to 42 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(b)(1). COC sampling parameters: pH.

5.2.5 ISGS #3530-34 (LOOS LAW OFFICE)

ISGS Site 3530-34 (Commercial buildings, 12-14 W. Water Street, Pinckneyville, Perry County, Illinois)
Station 1266+57 to Station 1267+02 (IL 13/IL 154/W Water St), 0 to 55 feet LT (IL 13/IL 154/W Water St): The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(5). COC sampling parameters: pH, arsenic, and manganese.

5.2.6 ISGS #3530-35 (MCDONALD'S)

ISGS Site 3530-35 (McDonald's, 10 W. Water Street, Pinckneyville, Perry County Illinois)
Station 1263+98 to 1266+57 (IL 13/IL 127/ S Main St and IL 13/IL 154/W Water St), 0 to 55 feet LT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(5). COC sampling parameters: PCE, TCE, lead, manganese, benzo(a)pyrene, arsenic.

5.2.7 ISGS #3530-37 (VACANT LOT)

ISGS Site 3530-37 (Vacant lot, 0-100 block of S. Main Street, Pinckneyville, Perry County, Illinois)
Station 1263+30 to Station 1263+83 (IL 13/IL 127/ S Main St), 72 to 141 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(1). COC sampling parameters: arsenic, pH.

5.2.8 ISGS #3530-39 (VACANT LOT)

ISGS Site 3530-39 (Vacant lot, 0-100 block of E. Water Street, Pinckneyville, Perry County, Illinois)
Station 1264+17 to Station 1264+36 (IL 13/IL 127/ S Main St), 85 to 143 feet RT: The Engineer has determined this

material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameters: manganese, pH.

Station 1264+24 to Station 1264+59 (IL 13/IL 127/ S Main St), 0 to 85 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(a)(1). COC sampling parameters: arsenic, pH.

Station 1264+59 to Station 1265+11 (IL 13/IL 127/ S Main St), 0 to 85 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameters: manganese, pH.

5.2.9 ISGS #3530-40 (PERRY COUNTY JAIL AND SHERIFF'S OFFICE)

ISGS Site 3530-40 (Perry County building, 12 E. Water Street, Pinckneyville, Perry County, Illinois)
Station 1+43 to Station 2+30 (E Water St), 0 to 70 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameter: manganese.

5.2.10 ISGS #3530-47 (DAIRY QUEEN)

ISGS Site 3530-47 (Dairy Queen, 104 S. Main Street, Pinckneyville, Perry County Illinois)
Station 1261+78 to Station 1262+64 (IL 13/IL 127/ S Main St), 0 to 65 feet RT: The Engineer has determined this material meets the criteria of, and shall be managed in accordance with Article 669.05(c). COC sampling parameters: manganese.

5.3 RECOMMENDATIONS

5.3.1 ADDITIONAL INVESTIGATIONS

WSP does not recommend further investigation for this project. The source of chlorinated VOCs above applicable reference concentrations at ISGS #3530-35 is not known; however, soil in the project area has been characterized with regard to IDOT construction activities. Additional sampling may be required if soil is encountered that exhibits odor or discoloration indicative of contamination during construction excavation activities in those areas, or if activities extend beyond the previously investigated area.

It is not anticipated that groundwater will be encountered during construction, but if any groundwater exhibiting odor or discoloration is encountered during construction activities, the water should be sampled to determine proper management requirements.

5.3.2 PREVENTION OF ACCELERATED CONTAMINATED MIGRATION

Soil containment and storm water runoff control measures are recommended to mitigate the migration of contaminants from any impacted soils that are stockpiled at the sites. If soil must be stockpiled, it should be

stored in lined and covered roll-off boxes or segregated from other soils on storage pads designed to prevent migration of contaminants to unimpacted areas.

5.3.3 COMPARISON OF DETECTED SOIL CONCENTRATIONS WITH TACO TIER 1 REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKER EXPOSURE

The COCs detected in site soil were compared with TACO Tier 1 ROs for construction worker exposure. Manganese was detected at a concentration exceeding the TACO Tier 1 RO for construction worker exposure in soil at ISGS #3530-40 (see Table 5-3).

VOCs were detected during headspace screening of soil at ISGS #3530-31, and VOCs (including chlorinated VOCs) were detected by laboratory analysis in soil at ISGS #3530-16 and ISGS #3530-35, although PID headspace readings were not detected at the sites. A possibility exists that higher concentrations of VOCs will be encountered at those sites during soil excavation. If soil unearthed during excavation activities exhibits PID readings, odors, or discoloration indicative of contamination, WSP recommends that the soil be sampled to determine appropriate worker protection measures during construction activities. The health and safety of construction workers is the sole responsibility of the construction contractor, and Occupational Safety and Health Administration (OSHA) regulations should be adhered to during construction activities.

6 REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR). 2012. Toxicological profile for Manganese. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Illinois State Geological Survey (ISGS), October 12, 2018, *Preliminary Environmental Site Assessment,* FAP 42/FAP 841 (IL 127/IL 154), Pinckneyville Square, Pinckneyville, Perry County; Pinckneyville quadrangle (USGS 7.5-minute topographic map), T5S, R3W, Section 24.

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TABLES

TABLE 2-1 SUMMARY OF SITES AND PROPOSED CONSTRUCTION ACTIVITIES
FAS 1512 (US 150)
Ogden, Champaign County, Illinois

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition
ISGS #3530-15 (Vacant Lot)	Potential USTs; potential former chemical use.	Curb and gutter installation and pavement removal. Proposed maximum excavation depth is 2.3 feet bgs.	None
ISGS #3530-16 (Vacant Lot)	Potential USTs; potential former chemical use; VOCs detected in previous ISGS testing.	Curb and gutter installation and roadway construction. Proposed maximum excavation depth is 3 feet bgs.	Full property take
ISGS #3530-18 (Shamrock Realty)	Potential former chemical use.	Curb and gutter installation. Proposed maximum excavation depth is 2.3 feet bgs.	None
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)	Potential USTs; potential former chemical use; VOCs detected in previous ISGS testing.	Roadway construction. Proposed maximum excavation depth is 2 feet bgs.	None
ISGS #3530-30 (Commercial Unit and Residential Space)	Potential USTs; potential former chemical use.	Roadway construction. Proposed maximum excavation depth is 2 feet bgs.	None
ISGS #3530-31 (Parking Lot)	Potential USTs; potential former chemical use; VOCs detected in previous ISGS testing.	Curb and gutter, storm sewer, and traffic signal installation and roadway construction. Proposed maximum excavation depth is 15 feet bgs.	Partial property take
ISGS #3530-34 (Loos Law Office)	Potential USTs; potential AST; evidence of former chemical use.	Roadway and alley construction. Proposed maximum depth excavation depth is 2.3 feet bgs.	None
ISGS #3530-35 (McDonald's)	Former USTs w/documented release; potential USTs; former AST; monitoring wells; potential monitoring well; former monitoring wells; potential former chemical use; impacted soil and groundwater VOCs detected in previous ISGS testing.	Curb and gutter, storm sewer, and traffic signal installation and roadway construction. Proposed maximum excavation depth is 3.3 feet bgs.	Partial property take

TABLE 2-1 SUMMARY OF SITES AND PROPOSED CONSTRUCTION ACTIVITIES
FAS 1512 (US 150)
Ogden, Champaign County, Illinois

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition
ISGS #3530-37 (Vacant Lot)	Potential USTs; potential former chemical use.	Curb and gutter, storm sewer, and light pole installation and roadway construction. Proposed maximum excavation depth is 6 feet bgs.	Full property take
ISGS #3530-39 (Vacant Lot)	Potential former chemical use.	Curb and gutter, storm sewer, and traffic signal pole installation and roadway construction. Proposed maximum excavation depth is 15 feet bgs.	Full property take
ISGS #3530-40 (Perry County Jail and Sheriff's Office)	Potential USTs; potential former chemical use; VOCs detected in previous ISGS testing.	Curb and gutter, storm sewer, and traffic signal pole installation and roadway construction. Proposed maximum excavation depth is 15 feet bgs.	Partial property take
ISGS #3530-47 (Dairy Queen)	Potential USTs; potential former chemical use.	Curb and gutter, storm sewer, and roadway construction. Proposed maximum excavation depth is 3 feet bgs.	Partial property take

Key:
AST = Above-ground storage tank.
bgs = Below ground surface.
ISGS = Illinois State Geological Survey.
UST = Underground storage tank.
VOC = Volatile Organic Compound.

TABLE 3-1 SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Offset from Proposed Location[a]	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method)[a]				
					VOCs (8260B/5035)	SVOCs (8270D)	Total Metals (6010B/6020A/7471B)	TCLP Metals (1311/6010B/6020A/7470A)[b]	SPLP Metals (1312/6010B/6020A/7470A)
ISGS #3530-15 (Vacant Lot)									
3530-15-B01	--	3	Soil	3530-15-B01 (0-3)	●	●	●	●	
ISGS #3530-16 (Vacant Lot)									
3530-16-B01	--	12	Soil	3530-16-B01 (0-6)	●	●	●	●	●
			Soil	3530-16-B01 (6-12)	●	●	●	●	
3530-16-B02	--	12	Soil	3530-16-B02 (0-6)	●	●	●	●	
			Soil	3530-16-B02 (6-12)	●	●	●	●	
3530-16-B03	--	12	Soil	3530-16-B03 (0-6)	●	●	●	●	
			Soil	3530-16-B03 (6-12)	●	●	●	●	
3530-16-B04	--	12	Soil	3530-16-B04 (0-6)	●	●	●	●	
			Soil	3530-16-B04 (6-12)	●	●	●	●	
3530-16-B05	--	12	Soil	3530-16-B05 (0-6)	●	●	●	●	
			Soil	3530-16-B05 (6-12)	●	●	●	●	
3530-16-B06	--	12	Soil	3530-16-B06 (0-6)	●	●	●	●	
			Soil	3530-16-B06 (6-12)	●	●	●	●	
3530-16-B07	--	12	Soil	3530-16-B07 (0-6)	●	●	●	●	
			Soil	3530-16-B07 (6-12)	●	●	●	●	
3530-16-B08	--	12	Soil	3530-16-B08 (0-6)	●	●	●	●	
			Soil	3530-16-B08 (6-12)	●	●	●	●	
3530-16-B09	--	12	Soil	3530-16-B09 (0-6)	●	●	●	●	●
			Soil	3530-16-B09 (6-12)	●	●	●	●	
3530-16-B10	--	12	Soil	3530-16-B10 (0-6)	●	●	●	●	●
			Soil	3530-16-B10 (6-12)	●	●	●	●	●
ISGS #3530-18 (Shamrock Realty)									
3530-18-B01	--	3	Soil	3530-18-B01 (0-3)	●	●	●	●	●
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)									
3530-29-B01	--	2	Soil	3530-29-B01 (0-2)	●	●	●	●	
ISGS #3530-30 (Commercial Unit and Residential Space)									
3530-30-B01	--	2	Soil	3530-30-B01 (0-2)	●	●	●	●	
ISGS #3530-31 (Parking Lot)									
3530-31-B01	--	15	Soil	3530-31-B01 (0-5)	●	●	●	●	
			Soil	3530-31-B01 (0-5)D	●	●	●	●	
			Soil	3530-31-B01 (5-10)	●	●	●	●	
			Soil	3530-31-B01 (10-15)	●	●	●	●	●

TABLE 3-1 SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Offset from Proposed Location[a]	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method)[a]				
					VOCs (8260B/5035)	SVOCs (8270D)	Total Metals (6010B/6020A/7471B)	TCLP Metals (1311/6010B/6020A/7470A)[b]	SPLP Metals (1312/6010B/6020A/7470A)
3530-31-B02	--	12	Soil	3530-31-B02 (0-6)	●	●	●	●	
			Soil	3530-31-B02 (6-12)	●	●	●	●	
ISGS #3530-34 (Loos Law Office)									
3530-34-B01	--	3	Soil	3530-34-B01 (0-3)	●	●	●	●	
ISGS #3530-35 (McDonald's)									
3530-35-B01	--	12	Soil	3530-35-B01 (0-6)	●	●	●	●	●
			Soil	3530-35-B01 (6-12)	●	●	●	●	
3530-35-B02	--	12	Soil	3530-35-B02 (0-6)	●	●	●	●	●
			Soil	3530-35-B02 (6-12)	●	●	●	●	●
3530-35-B03	--	12	Soil	3530-35-B03 (0-6)	●	●	●	●	●
			Soil	3530-35-B03 (6-12)	●	●	●	●	
			Soil	3530-35-B03 (6-12)D	●	●	●	●	
3530-35-B04	--	4	Soil	3530-35-B04 (0-4)	●	●	●	●	
ISGS #3530-37 (Vacant Lot)									
3530-37-B01	--	12	Soil	3530-37-B01 (0-6)	●	●	●	●	
			Soil	3530-37-B01 (6-12)	●	●	●	●	
3530-37-B02	--	12	Soil	3530-37-B02 (0-6)	●	●	●	●	
			Soil	3530-37-B02 (6-12)	●	●	●	●	
ISGS #3530-39 (Vacant Lot)									
3530-39-B01	--	15	Soil	3530-39-B01 (0-5)	●	●	●	●	
			Soil	3530-39-B01 (5-10)	●	●	●	●	
			Soil	3530-39-B01 (10-15)	●	●	●	●	
3530-39-B02	--	12	Soil	3530-39-B02 (0-6)	●	●	●	●	●
			Soil	3530-39-B02 (6-12)	●	●	●	●	
3530-39-B03	--	12	Soil	3530-39-B03 (0-6)	●	●	●	●	
			Soil	3530-39-B03 (6-12)	●	●	●	●	
3530-39-B04	--	12	Soil	3530-39-B04 (0-6)	●	●	●	●	
			Soil	3530-39-B04 (6-12)	●	●	●	●	●
3530-39-B05	--	12	Soil	3530-39-B05 (0-6)	●	●	●	●	
			Soil	3530-39-B05 (6-12)	●	●	●	●	
3530-39-B06	--	12	Soil	3530-39-B06 (0-6)	●	●	●	●	●
			Soil	3530-39-B06 (0-6)D	●	●	●	●	
			Soil	3530-39-B06 (6-12)	●	●	●	●	

TABLE 3-1 SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Offset from Proposed Location[a]	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method)[a]				
					VOCs (8260B/5035)	SVOCs (8270D)	Total Metals (6010B/6020A/7471B)	TCLP Metals (1311/6010B/6020A/7470A)[b]	SPLP Metals (1312/6010B/6020A/7470A)
ISGS #3530-40 (Perry County Jail and Sheriff's Office)									
3530-40-B01	--	15	Soil	3530-40-B01 (0-5)	●	●	●	●	
			Soil	3530-40-B01 (5-10)	●	●	●	●	
			Soil	3530-40-B01 (10-15)	●	●	●	●	
ISGS #3530-47 (Dairy Queen)									
3530-47-B01	--	3	Soil	3530-47-B01 (0-3)	●	●	●	●	●

Notes:

[a] Offsets are shown for borings moved a distance of 10 feet or greater from the proposed location.

[b] All of the samples were analyzed for pH and percent solids.

Key:

IDOT = Illinois Department of Transportation.
ISGS = Illinois State Geological Survey.
ROW = Right-of-way.
SPLP = Synthetic precipitation leaching procedure.
SVOCs = Semivolatile organic compounds.
TCLP = Toxicity characteristic leaching procedure.
VOCs = Volatile organic compounds.

TABLE 4-1 FIELD OBSERVATIONS AND SAMPLING RATIONALE
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring	Depth to Groundwater (feet)	Range of PID Readings[a] (meter units)	Observed Evidence of Potential Contamination	Sample Depth	Rationale
ISGS #3530-15 (Vacant Lot)					
3530-15-B01	--	None detected	None observed	0 - 3	Sample was collected within proposed construction depth.
ISGS #3530-16 (Vacant Lot)					
3530-16-B01	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B02	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B03	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B04	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B05	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B06	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B07	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B08	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B09	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-16-B10	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
ISGS #3530-18 (Shamrock Realty)					
3530-18-B01	--	None detected	None observed	0 - 3	Sample was collected within proposed construction depth.
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)					
3530-29-B01	--	None detected	None observed	0 - 2	Sample was collected within proposed construction depth.

TABLE 4-1 FIELD OBSERVATIONS AND SAMPLING RATIONALE
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring	Depth to Groundwater (feet)	Range of PID Readings[a] (meter units)	Observed Evidence of Potential Contamination	Sample Depth	Rationale
ISGS #3530-30 (Commercial Unit and Residential Space)					
3530-30-B01	--	None detected	None observed	0 - 2	Sample was collected within proposed construction depth.
ISGS #3530-31 (Parking Lot)					
3530-31-B01	--	0.5 to 24.5 meter units from 10 to 15 feet bgs	Slight odor and greenish-brown color noted at 7 feet bgs.	0 - 5	Sample was collected within proposed construction depth.
				5 - 10	Sample was collected within proposed construction depth.
				10 - 15	Sample was collected within proposed construction depth.
3530-31-B02	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
ISGS #3530-34 (Loos Law Office)					
3530-34-B01	--	None detected	None observed	0 - 3	Sample was collected within proposed construction depth.
ISGS #3530-35 (McDonald's)					
3530-35-B01	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-35-B02	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-35-B03	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-35-B04	--	None detected	None observed	0 - 4	Sample was collected within proposed construction depth.
ISGS #3530-37 (Vacant Lot)					
3530-37-B01	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-37-B02	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
ISGS #3530-39 (Vacant Lot)					
3530-39-B01	--	None detected	None observed	0 - 5	Sample was collected within proposed construction depth.
				5 - 10	Sample was collected within proposed construction depth.
				10 - 15	Sample was collected within proposed construction depth.

TABLE 4-1 FIELD OBSERVATIONS AND SAMPLING RATIONALE
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring	Depth to Groundwater (feet)	Range of PID Readings[a] (meter units)	Observed Evidence of Potential Contamination	Sample Depth	Rationale
3530-39-B02	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-39-B03	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-39-B04	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-39-B05	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
3530-39-B06	--	None detected	None observed	0 - 6	Sample was collected within proposed construction depth.
				6 - 12	Sample was collected within proposed construction depth.
ISGS #3530-40 (Perry County Jail and Sheriff's Office)					
3530-40-B01	--	None detected	None observed	0 - 5	Sample was collected within proposed construction depth.
				5 - 10	Sample was collected within proposed construction depth.
				10 - 15	Sample was collected within proposed construction depth.
ISGS #3530-47 (Dairy Queen)					
3530-47-B01	--	None detected	None observed	0 - 3	Sample was collected within proposed construction depth.

Notes:

[a] The range of PID readings represents any readings above background measurements, and above the margin of error of the instrument.

Key:

ISGS = Illinois State Geological Survey.

PID = Photoionization detector.

-- = Groundwater was not encountered in the boring.

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-15 (Vacant Lot)					
Inorganics (mg/Kg)					
Antimony	0.52	5.0	--	82	--
Arsenic	10.0	11.3	13	61	--
Barium	120	1,500	--	14,000	--
Beryllium	0.63	22	--	410	--
Boron	2.4	40	--	41,000	--
Calcium	4,600	--	--	--	--
Chromium	21.0	21	--	690	--
Cobalt	5.	20	--	12,000	--
Copper	17.0	2,900	--	8,200	--
Iron	**24,000**	15,000	15,900	--	--
Lead	15.0	107	--	700	--
Magnesium	3,100	325,000	--	730,000	--
Manganese	180	630	636	4,100	--
Mercury	0.015	0.89	--	0.1	--
Nickel	14.0	100	--	4,100	--
Potassium	1,500	--	--	--	--
Selenium	0.39	1.3	--	1,000	--
Silver	0.31	4.4	--	1,000	--
Sodium	170	--	--	--	--
Thallium	0.53	2.6	--	160	--
Vanadium	34.0	550	--	1,400	--
Zinc	58.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.81	--	--	--	2.0
ISGS #3530-16 (Vacant Lot)					
VOCs (mg/Kg)					
Acetone	0.011	25	--	100,000	--
cis-1,2-Dichloroethene	0.0009	0.4	--	1,200	--
Methylene Chloride	0.0023	0.02	--	34	--
Tetrachloroethene	0.0008	0.06	--	28	--
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.056	--	--	--	--
Acenaphthylene	0.0078	--	--	--	--
Anthracene	0.035	12,000	--	610,000	--
Benzo(a)anthracene	0.47	0.9	1.8	170	--
Benzo(a)pyrene	**0.58**	0.09	2.1	17	--
Benzo(b)fluoranthene	0.64	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.27	--	--	--	--
Benzo(k)fluoranthene	0.28	9.0	--	1,700	--
Chrysene	0.47	88	--	17,000	--
Dibenz(a,h)anthracene	0.078	0.09	0.42	17	--
Fluoranthene	0.43	3,100	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.26	0.9	1.6	170	--
Naphthalene	0.049	1.8	--	1.8	--
Phenanthrene	0.12	--	--	--	--
Pyrene	0.46	2,300	--	61,000	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-16 (Vacant Lot)					
Inorganics (mg/Kg)					
Antimony	1.2	5.0	--	82	--
Arsenic	11.0	11.3	13	61	--
Barium	300	1,500	--	14,000	--
Beryllium	0.89	22	--	410	--
Boron	3.7	40	--	41,000	--
Cadmium	0.47	5.2	--	200	--
Calcium	26,000	--	--	--	--
Chromium	**22.0**	21	--	690	--
Cobalt	12.0	20	--	12,000	--
Copper	19.0	2,900	--	8,200	--
Iron	**24,000**	15,000	15,900	--	--
Lead	**130**	107	--	700	--
Magnesium	8,000	325,000	--	730,000	--
Manganese	**1,600**	630	636	4,100	--
Mercury	0.49	0.89	--	0.1	--
Nickel	26.0	100	--	4,100	--
Potassium	1,800	--	--	--	--
Selenium	**1.6**	1.3	--	1,000	--
Silver	**11.0**	4.4	--	1,000	--
Sodium	160	--	--	--	--
Thallium	**2.9**	2.6	--	160	--
Vanadium	44.0	550	--	1,400	--
Zinc	220	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.88	--	--	--	2.0
Boron	0.26	--	--	--	2.0
Cadmium	0.0037	--	--	--	0.005
Cobalt	0.021	--	--	--	1.0
Iron	0.76	--	--	--	5.0
Lead	**0.019**	--	--	--	0.0075
Nickel	0.063	--	--	--	0.1
Zinc	0.31	--	--	--	5.0
SPLP Metals (mg/L)					
Lead	**0.031**	--	--	--	0.0075
ISGS #3530-18 (Shamrock Realty)					
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.072	--	--	--	--
Anthracene	0.0085	12,000	--	610,000	--
Benzo(a)anthracene	0.025	0.9	1.8	170	--
Benzo(a)pyrene	0.021	0.09	2.1	17	--
Benzo(b)fluoranthene	0.02	0.9	2.1	170	--
Chrysene	0.03	88	--	17,000	--
Dibenzofuran	0.047	--	--	--	--
Fluoranthene	0.024	3,100	--	82,000	--
Naphthalene	0.022	1.8	--	1.8	--
Phenanthrene	0.12	--	--	--	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-18 (Shamrock Realty)					
SVOCs (mg/Kg)					
Pyrene	0.042	2,300	--	61,000	--
Inorganics (mg/Kg)					
Antimony	0.63	5.0	--	82	--
Arsenic	8.4	11.3	13	61	--
Barium	130	1,500	--	14,000	--
Beryllium	0.74	22	--	410	--
Boron	11.0	40	--	41,000	--
Calcium	3,700	--	--	--	--
Chromium	13.0	21	--	690	--
Cobalt	6.4	20	--	12,000	--
Copper	15.0	2,900	--	8,200	--
Iron	**20,000**	15,000	15,900	--	--
Lead	**170**	107	--	700	--
Magnesium	1,000	325,000	--	730,000	--
Manganese	520	630	636	4,100	--
Mercury	0.28	0.89	--	0.1	--
Nickel	12.0	100	--	4,100	--
Potassium	1,000	--	--	--	--
Selenium	1.1	1.3	--	1,000	--
Silver	0.41	4.4	--	1,000	--
Sodium	170	--	--	--	--
Thallium	0.28	2.6	--	160	--
Vanadium	26.0	550	--	1,400	--
Zinc	76.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.38	--	--	--	2.0
Boron	0.072	--	--	--	2.0
Iron	0.3	--	--	--	5.0
Lead	**0.021**	--	--	--	0.0075
Zinc	0.064	--	--	--	5.0
SPLP Metals (mg/L)					
Lead	**0.21**	--	--	--	0.0075
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)					
SVOCs (mg/Kg)					
Phenanthrene	0.0056	--	--	--	--
Inorganics (mg/Kg)					
Antimony	0.54	5.0	--	82	--
Arsenic	9.8	11.3	13	61	--
Barium	80.0	1,500	--	14,000	--
Beryllium	0.6	22	--	410	--
Boron	1.6	40	--	41,000	--
Calcium	2,500	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	6.4	20	--	12,000	--
Copper	12.0	2,900	--	8,200	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)					
Inorganics (mg/Kg)					
Iron	21,000	15,000	15,900	--	--
Lead	20.0	107	--	700	--
Magnesium	2,100	325,000	--	730,000	--
Manganese	590	630	636	4,100	--
Mercury	0.041	0.89	--	0.1	--
Nickel	11.0	100	--	4,100	--
Potassium	1,200	--	--	--	--
Selenium	0.5	1.3	--	1,000	--
Silver	0.31	4.4	--	1,000	--
Sodium	1,600	--	--	--	--
Vanadium	28.0	550	--	1,400	--
Zinc	53.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.21	--	--	--	2.0
Iron	0.93	--	--	--	5.0
ISGS #3530-30 (Commercial Unit and Residential Space)					
Inorganics (mg/Kg)					
Antimony	0.61	5.0	--	82	--
Arsenic	9.	11.3	13	61	--
Barium	51.0	1,500	--	14,000	--
Beryllium	0.57	22	--	410	--
Boron	1.4	40	--	41,000	--
Calcium	3,000	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	4.9	20	--	12,000	--
Copper	12.0	2,900	--	8,200	--
Iron	19,000	15,000	15,900	--	--
Lead	16.0	107	--	700	--
Magnesium	2,000	325,000	--	730,000	--
Manganese	290	630	636	4,100	--
Mercury	0.033	0.89	--	0.1	--
Nickel	10.0	100	--	4,100	--
Potassium	1,100	--	--	--	--
Silver	0.38	4.4	--	1,000	--
Sodium	1,300	--	--	--	--
Thallium	0.5	2.6	--	160	--
Vanadium	30.0	550	--	1,400	--
Zinc	45.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.18	--	--	--	2.0
Chromium	0.014	--	--	--	0.1
Iron	0.32	--	--	--	5.0
Nickel	0.015	--	--	--	0.1

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-31 (Parking Lot)					
VOCs (mg/Kg)					
Acetone	0.011	25	--	100,000	--
Inorganics (mg/Kg)					
Antimony	0.91	5.0	--	82	--
Arsenic	7.9	11.3	13	61	--
Barium	900	1,500	--	14,000	--
Beryllium	0.94	22	--	410	--
Boron	3.2	40	--	41,000	--
Calcium	1,400	--	--	--	--
Chromium	20.0	21	--	690	--
Cobalt	10.0	20	--	12,000	--
Copper	18.0	2,900	--	8,200	--
Iron	**21,000**	15,000	15,900	--	--
Lead	14.0	107	--	700	--
Magnesium	3,100	325,000	--	730,000	--
Manganese	370	630	636	4,100	--
Mercury	0.041	0.89	--	0.1	--
Nickel	17.0	100	--	4,100	--
Potassium	1,300	--	--	--	--
Selenium	0.52	1.3	--	1,000	--
Silver	0.47	4.4	--	1,000	--
Sodium	560	--	--	--	--
Thallium	1.	2.6	--	160	--
Vanadium	34.0	550	--	1,400	--
Zinc	68.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.84	--	--	--	2.0
Boron	0.18	--	--	--	2.0
Cobalt	0.052	--	--	--	1.0
Iron	0.66	--	--	--	5.0
Lead	**0.0094**	--	--	--	0.0075
Nickel	0.033	--	--	--	0.1
Zinc	0.067	--	--	--	5.0
SPLP Metals (mg/L)					
Lead	**0.041**	--	--	--	0.0075
ISGS #3530-34 (Loos Law Office)					
Inorganics (mg/Kg)					
Antimony	0.74	5.0	--	82	--
Arsenic	**14.0**	11.3	13	61	--
Barium	230	1,500	--	14,000	--
Beryllium	0.71	22	--	410	--
Boron	1.7	40	--	41,000	--
Calcium	1,800	--	--	--	--
Chromium	15.0	21	--	690	--
Cobalt	20.0	20	--	12,000	--
Copper	8.7	2,900	--	8,200	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-34 (Loos Law Office)					
Inorganics (mg/Kg)					
Iron	**20,000**	15,000	15,900	--	--
Lead	30.0	107	--	700	--
Magnesium	1,700	325,000	--	730,000	--
Manganese	**3,600**	630	636	4,100	--
Mercury	0.084	0.89	--	0.1	--
Nickel	12.0	100	--	4,100	--
Potassium	860	--	--	--	--
Selenium	1.2	1.3	--	1,000	--
Sodium	150	--	--	--	--
Vanadium	44.0	550	--	1,400	--
Zinc	36.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.45	--	--	--	2.0
Iron	0.56	--	--	--	5.0
Zinc	0.021	--	--	--	5.0
ISGS #3530-35 (McDonald's)					
VOCs (mg/Kg)					
Acetone	0.25	25	--	100,000	--
cis-1,2-Dichloroethene	0.069	0.4	--	1,200	--
Ethylbenzene	0.023	13	--	58	--
Tetrachloroethene	**7.1**	0.06	--	28	--
Toluene	0.033	12.0	--	42	--
trans-1,2-Dichloroethene	0.037	0.7	--	3,100	--
Trichloroethene	**0.16**	0.06	--	12	--
Xylenes, Total	0.081	5.6	--	5.6	--
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.11	--	--	--	--
3,3'-Dichlorobenzidine	0.059	1.3	--	280	--
Acenaphthene	0.061	570	--	120,000	--
Acenaphthylene	0.076	--	--	--	--
Anthracene	0.13	12,000	--	610,000	--
Benzo(a)anthracene	0.44	0.9	1.8	170	--
Benzo(a)pyrene	**0.39**	0.09	2.1	17	--
Benzo(b)fluoranthene	0.35	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.12	--	--	--	--
Benzo(k)fluoranthene	0.47	9.0	--	1,700	--
Carbazole	0.16	0.6	--	6,200	--
Chrysene	0.57	88	--	17,000	--
Dibenz(a,h)anthracene	0.047	0.09	0.42	17	--
Dibenzofuran	0.11	--	--	--	--
Fluoranthene	1.3	3,100	--	82,000	--
Fluorene	0.12	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.13	0.9	1.6	170	--
Naphthalene	0.058	1.8	--	1.8	--
Phenanthrene	0.94	--	--	--	--
Pyrene	0.97	2,300	--	61,000	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-35 (McDonald's)					
Inorganics (mg/Kg)					
Antimony	1.2	5.0	--	82	--
Arsenic	**12.0**	11.3	13	61	--
Barium	240	1,500	--	14,000	--
Beryllium	1.1	22	--	410	--
Boron	**49.0**	40	--	41,000	--
Cadmium	1.4	5.2	--	200	--
Calcium	32,000	--	--	--	--
Chromium	18.0	21	--	690	--
Cobalt	17.0	20	--	12,000	--
Copper	39.0	2,900	--	8,200	--
Iron	**36,000**	15,000	15,900	--	--
Lead	**290**	107	--	700	--
Magnesium	2,300	325,000	--	730,000	--
Manganese	**1,200**	630	636	4,100	--
Mercury	**1.4**	0.89	--	0.1	--
Nickel	21.0	100	--	4,100	--
Potassium	1,100	--	--	--	--
Selenium	1.1	1.3	--	1,000	--
Silver	0.83	4.4	--	1,000	--
Sodium	680	--	--	--	--
Thallium	2.	2.6	--	160	--
Vanadium	39.0	550	--	1,400	--
Zinc	470	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	1.6	--	--	--	2.0
Boron	0.69	--	--	--	2.0
Cadmium	**0.007**	--	--	--	0.005
Cobalt	0.039	--	--	--	1.0
Iron	0.3	--	--	--	5.0
Lead	**0.27**	--	--	--	0.0075
Nickel	0.031	--	--	--	0.1
Zinc	2.1	--	--	--	5.0
SPLP Metals (mg/L)					
Lead	**0.52**	--	--	--	0.0075
ISGS #3530-37 (Vacant Lot)					
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.016	--	--	--	--
Benzo(a)anthracene	0.0094	0.9	1.8	170	--
Benzo(a)pyrene	0.012	0.09	2.1	17	--
Benzo(b)fluoranthene	0.019	0.9	2.1	170	--
Chrysene	0.018	88	--	17,000	--
Fluoranthene	0.018	3,100	--	82,000	--
Naphthalene	0.0074	1.8	--	1.8	--
Phenanthrene	0.035	--	--	--	--
Pyrene	0.019	2,300	--	61,000	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-37 (Vacant Lot)					
Inorganics (mg/Kg)					
Antimony	0.79	5.0	--	82	--
Arsenic	**13.0**	11.3	13	61	--
Barium	120	1,500	--	14,000	--
Beryllium	0.76	22	--	410	--
Boron	4.2	40	--	41,000	--
Cadmium	0.1	5.2	--	200	--
Calcium	59,000	--	--	--	--
Chromium	17.0	21	--	690	--
Cobalt	16.0	20	--	12,000	--
Copper	12.0	2,900	--	8,200	--
Iron	**17,000**	15,000	15,900	--	--
Lead	78.0	107	--	700	--
Magnesium	3,800	325,000	--	730,000	--
Manganese	470	630	636	4,100	--
Mercury	0.58	0.89	--	0.1	--
Nickel	20.0	100	--	4,100	--
Potassium	1,200	--	--	--	--
Selenium	0.62	1.3	--	1,000	--
Silver	0.69	4.4	--	1,000	--
Sodium	110	--	--	--	--
Thallium	1.2	2.6	--	160	--
Vanadium	35.0	550	--	1,400	--
Zinc	70.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	1.7	--	--	--	2.0
Boron	0.23	--	--	--	2.0
Nickel	0.042	--	--	--	0.1
Zinc	0.11	--	--	--	5.0
ISGS #3530-39 (Vacant Lot)					
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.033	--	--	--	--
Anthracene	0.0079	12,000	--	610,000	--
Benzo(a)anthracene	0.05	0.9	1.8	170	--
Benzo(a)pyrene	0.043	0.09	2.1	17	--
Benzo(b)fluoranthene	0.055	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.026	--	--	--	--
Benzo(k)fluoranthene	0.023	9.0	--	1,700	--
Chrysene	0.05	88	--	17,000	--
Fluoranthene	0.11	3,100	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.019	0.9	1.6	170	--
Naphthalene	0.052	1.8	--	1.8	--
Phenanthrene	0.041	--	--	--	--
Pyrene	0.098	2,300	--	61,000	--
Inorganics (mg/Kg)					
Antimony	1.3	5.0	--	82	--
Arsenic	**13.0**	11.3	13	61	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-39 (Vacant Lot)					
Inorganics (mg/Kg)					
Barium	150	1,500	--	14,000	--
Beryllium	0.89	22	--	410	--
Boron	5.9	40	--	41,000	--
Cadmium	0.49	5.2	--	200	--
Calcium	16,000	--	--	--	--
Chromium	**24.0**	21	--	690	--
Cobalt	14.0	20	--	12,000	--
Copper	18.0	2,900	--	8,200	--
Iron	**28,000**	15,000	15,900	--	--
Lead	21.0	107	--	700	--
Magnesium	4,600	325,000	--	730,000	--
Manganese	**1,200**	630	636	4,100	--
Mercury	0.08	0.89	--	0.1	--
Nickel	36.0	100	--	4,100	--
Potassium	1,600	--	--	--	--
Selenium	1.2	1.3	--	1,000	--
Silver	0.53	4.4	--	1,000	--
Sodium	200	--	--	--	--
Thallium	2.2	2.6	--	160	--
Vanadium	44.0	550	--	1,400	--
Zinc	76.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.4	--	--	--	2.0
Boron	0.42	--	--	--	2.0
Cadmium	**0.013**	--	--	--	0.005
Iron	2.9	--	--	--	5.0
Lead	**0.01**	--	--	--	0.0075
Nickel	0.066	--	--	--	0.1
Zinc	0.13	--	--	--	5.0
ISGS #3530-40 (Perry County Jail and Sheriff's Office)					
Inorganics (mg/Kg)					
Antimony	0.69	5.0	--	82	--
Arsenic	9.3	11.3	13	61	--
Barium	170	1,500	--	14,000	--
Beryllium	0.84	22	--	410	--
Boron	3.4	40	--	41,000	--
Cadmium	0.38	5.2	--	200	--
Calcium	2,600	--	--	--	--
Chromium	18.0	21	--	690	--
Cobalt	**28.0**	20	--	12,000	--
Copper	18.0	2,900	--	8,200	--
Iron	**21,000**	15,000	15,900	--	--
Lead	39.0	107	--	700	--
Magnesium	2,400	325,000	--	730,000	--
Manganese	**4,300**	630	636	4,100	--
Mercury	0.14	0.89	--	0.1	--

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAP42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-40 (Perry County Jail and Sheriff's Office)					
Inorganics (mg/Kg)					
Nickel	30.0	100	--	4,100	--
Potassium	1,200	--	--	--	--
Selenium	0.54	1.3	--	1,000	--
Silver	0.55	4.4	--	1,000	--
Sodium	190	--	--	--	--
Thallium	0.4	2.6	--	160	--
Vanadium	33.0	550	--	1,400	--
Zinc	440	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.5	--	--	--	2.0
Boron	0.056	--	--	--	2.0
Cadmium	0.0021	--	--	--	0.005
Iron	0.29	--	--	--	5.0
Nickel	0.03	--	--	--	0.1
Zinc	0.67	--	--	--	5.0
ISGS #3530-47 (Dairy Queen)					
SVOCs (mg/Kg)					
Phenanthrene	0.0073	--	--	--	--
Inorganics (mg/Kg)					
Antimony	0.35	5.0	--	82	--
Arsenic	7.8	11.3	13	61	--
Barium	71.0	1,500	--	14,000	--
Beryllium	0.54	22	--	410	--
Boron	1.6	40	--	41,000	--
Calcium	1,900	--	--	--	--
Chromium	13.0	21	--	690	--
Cobalt	10.0	20	--	12,000	--
Copper	7.2	2,900	--	8,200	--
Iron	15,000	15,000	15,900	--	--
Lead	23.0	107	--	700	--
Magnesium	1,600	325,000	--	730,000	--
Manganese	**860**	630	636	4,100	--
Mercury	0.081	0.89	--	0.1	--
Nickel	9.5	100	--	4,100	--
Potassium	820	--	--	--	--
Silver	0.34	4.4	--	1,000	--
Sodium	130	--	--	--	--
Thallium	0.54	2.6	--	160	--
Vanadium	27.0	550	--	1,400	--
Zinc	30.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.16	--	--	--	2.0
Chromium	**0.14**	--	--	--	0.1
Iron	0.91	--	--	--	5.0
Nickel	**0.19**	--	--	--	0.1

Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria FAP42/FAP 841 (IL 127/IL 154) Pinckneyville, Perry County, Illinois

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #3530-47 (Dairy Queen)					
SPLP Metals (mg/L)					
Chromium	0.068	--	--	--	0.1
Nickel	0.04	--	--	--	0.1

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded.

NOTE: Maximum Allowable Concentration refers to the values listed in the Summary of Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations, 35 Ill. Adm. Code 1100.Subpart F dated 8/27/12. Total COC concentrations exceeding a MAC are highlighted; however, further evaluation is required to determine if the detected metals concentrations exceed the applicable MAC. For metals, total, TCLP and SPLP results are also evaluated to determine compliance with MACs.

Key:

ISGS = Illinois State Geological Survey.
MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil.
mg/L = Milligrams per liter.
mg/kg = Milligrams per kilogram.
MSA = Metropolitan Statistical Area.
-- = Not applicable or not specified. Groundwater protection objectives are shown for inorganics via TCLP/SPLP analyses.
SPLP = Synthetic precipitation leaching procedure.
SVOCs = Semi-volatile organic compounds.
TACO = Tiered Approach to Corrective Action Objectives.
TCLP = Toxicity characteristic leaching procedure.
VOCs = Volatile organic compounds.

TABLE 4-3 SUMMARY OF SOIL IMPACTS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Range of PID Readings (meter units)	Sample(s)	pH	Contaminants of Concern[a]		Off-Site Management[b]	
				Above MSA MAC and/or TACO Tier 1 SRO	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or USFO?	Classification
ISGS #3530-15 (Vacant Lot)							
3530-15-B01	--	3530-15-B01 (0-3)	**5.8**	None	None	No (pH)	Restricted
ISGS #3530-16 (Vacant Lot)							
3530-16-B01	--	3530-16-B01 (0-6)	8.1	None	Lead (T/S)	Yes	Uncontaminated Soil
		3530-16-B01 (6-12)	8.2	None	None		
3530-16-B02	--	3530-16-B02 (0-6)	7.4	None	None	Yes	Unrestricted
		3530-16-B02 (6-12)	6.5	None	None		
3530-16-B03	--	3530-16-B03 (0-6)	**4.5**	None	None	No (pH)	Restricted
		3530-16-B03 (6-12)	**5.5**	None	None		
3530-16-B04	--	3530-16-B04 (0-6)	**5.3**	None	None	No (pH)	Restricted
		3530-16-B04 (6-12)	**5.7**	None	None		
3530-16-B05	--	3530-16-B05 (0-6)	7.2	None	Benzo(a)pyrene	Yes, within an MSA, including Chicago	Uncontaminated Soil
		3530-16-B05 (6-12)	6.3	None	None		
3530-16-B06	--	3530-16-B06 (0-6)	7.6	None	None	No	Restricted
		3530-16-B06 (6-12)	6.8	Manganese	None		
3530-16-B07	--	3530-16-B07 (0-6)	**5.2**	None	None	No (pH)	Restricted
		3530-16-B07 (6-12)	**5.6**	None	None		
3530-16-B08	--	3530-16-B08 (0-6)	**5.6**	Manganese	None	No	Restricted
		3530-16-B08 (6-12)	**5.5**	None	None		
3530-16-B09	--	3530-16-B09 (0-6)	6.6	None	Lead (T/S)	No (pH)	Non-Special Waste
		3530-16-B09 (6-12)	**5.4**	None	None		
3530-16-B10	--	3530-16-B10 (0-6)	6.6	Lead, manganese	None	No	Non-Special Waste
		3530-16-B10 (6-12)	7.0	None	Lead (T/S)		
ISGS #3530-18 (Shamrock Realty)							
3530-18-B01	--	3530-18-B01 (0-3)	8.3	Lead	None	No	Non-Special Waste
ISGS #3530-29 (Shear Attitude Hair & Nail Salon)							
3530-29-B01	--	3530-29-B01 (0-2)	8.2	None	None	Yes	Unrestricted
ISGS #3530-30 (Commercial Unit and Residential Space)							
3530-30-B01	--	3530-30-B01 (0-2)	8.0	None	None	Yes	Unrestricted

TABLE 4-3 SUMMARY OF SOIL IMPACTS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Range of PID Readings (meter units)	Sample(s)	pH	Contaminants of Concern[a]		Off-Site Management[b]	
				Above MSA MAC and/or TACO Tier 1 SRO	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or USFO?	Classification
ISGS #3530-31 (Parking Lot)							
3530-31-B01	**0 - 24.5**	3530-31-B01 (0-5)	**5.1**	None	None	No (pH, VOCs)	Non-Special Waste
		3530-31-B01 (0-5)D	**5.0**	None	None		
		3530-31-B01 (5-10)	6.6	None	None		
		3530-31-B01 (10-15)	7.6	None	Lead (T/S)		
3530-31-B02	--	3530-31-B02 (0-6)	**4.3**	None	None	No (pH)	Restricted
		3530-31-B02 (6-12)	**6.1**	None	None		
ISGS #3530-34 (Loos Law Office)							
3530-34-B01	--	3530-34-B01 (0-3)	**6.1**	Arsenic[c], manganese[c]	None	No	Non-Special Waste
ISGS #3530-35 (McDonald's)							
3530-35-B01	--	3530-35-B01 (0-6)	7.9	Lead, manganese	Benzo(a)pyrene	No	Non-Special Waste
		3530-35-B01 (6-12)	7.4	None	None		
3530-35-B02	--	3530-35-B02 (0-6)	8.5	Tetrachloroethene, trichloroethene, lead	Benzo(a)pyrene	No	Non-Special Waste
		3530-35-B02 (6-12)	7.2	None	Lead (T/S)		
3530-35-B03	--	3530-35-B03 (0-6)	8.2	Lead, manganese	Benzo(a)pyrene, arsenic	No	Non-Special Waste
		3530-35-B03 (6-12)	7.1	None	None		
		3530-35-B03 (6-12)D	7.2	None	None		
3530-35-B04	--	3530-35-B04 (0-4)	7.4	None	None	Yes	Unrestricted
ISGS #3530-37 (Vacant Lot)							
3530-37-B01	--	3530-37-B01 (0-6)	8.3	None	None	Yes	Unrestricted
		3530-37-B01 (6-12)	7.6	None	None		
3530-37-B02	--	3530-37-B02 (0-6)	**5.1**	None	Arsenic	No (pH)	Non-Special Waste
		3530-37-B02 (6-12)	**5.6**	None	None		
ISGS #3530-39 (Vacant Lot)							
3530-39-B01	--	3530-39-B01 (0-5)	**4.8**	Manganese	None	No	Restricted
		3530-39-B01 (5-10)	**5.8**	Manganese	None		
		3530-39-B01 (10-15)	6.9	None	None		

TABLE 4-3 SUMMARY OF SOIL IMPACTS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Range of PID Readings (meter units)	Sample(s)	pH	Contaminants of Concern[a]		Off-Site Management[b]	
				Above MSA MAC and/or TACO Tier 1 SRO	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or USFO?	Classification
3530-39-B02	--	3530-39-B02 (0-6)	**4.3**	None	Arsenic	No (pH)	Non-Special Waste
		3530-39-B02 (6-12)	**5.6**	None	None		
3530-39-B03	--	3530-39-B03 (0-6)	7.4	None	None	Yes	Unrestricted
		3530-39-B03 (6-12)	6.5	None	None		
3530-39-B04	--	3530-39-B04 (0-6)	7.6	None	None	Yes	Unrestricted
		3530-39-B04 (6-12)	7.2	None	None		
3530-39-B05	--	3530-39-B05 (0-6)	7.2	Manganese	None	No	Restricted
		3530-39-B05 (6-12)	**5.9**	Manganese	None		
3530-39-B06	--	3530-39-B06 (0-6)	7.4	None	None	Yes	Unrestricted
		3530-39-B06 (0-6)D	7.1	None	None		
		3530-39-B06 (6-12)	6.3	None	None		
ISGS #3530-40 (Perry County Jail and Sheriff's Office)							
3530-40-B01	--	3530-40-B01 (0-5)	6.3	Manganese	None	No	Non-Special Waste
		3530-40-B01 (5-10)	6.6	None	None		
		3530-40-B01 (10-15)	6.8	Manganese[c,d]	None		
ISGS #3530-47 (Dairy Queen)							
3530-47-B01	--	3530-47-B01 (0-3)	8.0	Manganese	None	No	Restricted

Notes:

[a] Contaminants of concern are defined as analytes that were detected at a concentration above one or more reference criteria. The following compounds and analytes have MACs for both MSAs and non-MSAs: arsenic, iron, manganese, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. T/S exceedances of the SCGIER are considered to be MAC exceedances when the total metal concentration also exceeds the MAC.

[b] Soils that contain constituent concentrations below the most stringent MACs may be managed off site as "uncontaminated soil" pursuant to 35 IAC 11. Uncontaminated soil with a pH

[c] The analyte concentration exceeds a TACO Tier 1 soil remediation objective for residential properties.

[d] The analyte concentration exceeds a TACO Tier 1 soil remediation objective for construction worker exposure.

Key:

CCDD = Clean Construction and Demolition Debris.
ISGS = Illinois State Geological Survey.
MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill at Regulated Fill Operations.
MSA = Metropolitan Statistical Area.
PID = Photoionization detector.
SCGIER = Soil component of the groundwater ingestion exposure route.
SPLP = Synthetic precipitation leaching procedure.
SRO = Soil remediation objective.
TACO = Tiered Approach to Corrective Action Objectives.
TCLP = Toxicity characteristic leaching procedure.
T/S = Toxicity characteristic leaching procedure/Synthetic precipitation leaching procedure.

TABLE 4-4 ESTIMATE OF IMPACTED SOIL WITHIN IDOT CONSTRUCTION AREAS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Affected Stationing	Contaminants of Concern			Excavation Dimension Assumption[a]	Estimated Volume and Classification of Impacted Soil (cubic yards)[a] Standard Specifications, Article 669.05						
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Construction Feature Involving Excavation of Impacted Soil		(a)(1)	(a)(2)	(a)(3)	(a)(4)	(a)(5)	(b)(1)	(c)
ISGS #3530-15 (Vacant Lot)												
3530-15-B01	Station 4+66 to Station 5+00, 0 to 262 feet RT (W Jackson St)	pH	None	Pavement removal, curb and gutter	Excavation volume provided by IDOT	--	--	--	--	--	19.0	--
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**19.0**	**0.0**
ISGS #3530-16 (Vacant Lot)												
3530-16-B01	Station 22+58 to Station 22+87, 0 to 40 feet RT (E Jackson St)	None	Lead (T/S)	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	35.2	--	--	--	--	--
3530-16-B03	Station 0+62 to Station 1+20, 78 to 141 feet RT (N Main St/IL 127)	pH	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	117.0	--
3530-16-B04	Station 1+20 to Station 1+80, 78 to 141 feet RT (N Main St/IL 127)	pH	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	117.0	--
3530-16-B05	Station 1+80 to Station 2+40, 78 to 141 feet RT (N Main St/IL 127)	None	Benzo(a)pyrene	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	117.1	--	--	--	--
3530-16-B06	Station 1+80 to Station 2+40, 0 to 78 feet RT (N Main St/IL 127)	Manganese	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	--	146.1
3530-16-B07	Station 1+20 to Station 1+80, 0 to 78 feet RT (N Main St/IL 127)	pH	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	137.1	--
3530-16-B08	Station 0+62 to Station 1+20, 0 to 78 feet RT (N Main St/IL 127)	pH, Manganese	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	--	140.2
3530-16-B09	Station 3+55 to Station 4+67, 52 to 82 feet RT (W Jackson St)	pH	Lead (T/S)	Roadway construction curb & gutter	Excavation volume provided by IDOT	99.7	--	--	--	--	--	--

TABLE 4-4 ESTIMATE OF IMPACTED SOIL WITHIN IDOT CONSTRUCTION AREAS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Affected Stationing	Contaminants of Concern			Excavation Dimension Assumption[a]	Estimated Volume and Classification of Impacted Soil (cubic yards)[a] Standard Specifications, Article 669.05						
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Construction Feature Involving Excavation of Impacted Soil		(a)(1)	(a)(2)	(a)(3)	(a)(4)	(a)(5)	(b)(1)	(c)
3530-16-B10	Station 3+55 to Station 4+67, 0 to 52 feet RT (W Jackson St)	Lead, manganese	None	Roadway construction curb & gutter	Excavation volume provided by IDOT	178.4	--	--	--	--	--	--
					Total Volume of Impacted Soil in Construction Zone:	**278.0**	**35.0**	**117.0**	**0.0**	**0.0**	**371.0**	**286.0**
ISGS #3530-18 (Shamrock Realty)												
3530-18-B01	Station 22+30 to Station 22+58, 0 to 37 feet RT (E Jackson St)	Lead	None	Sidewalk, curb & gutter	Excavation volume provided by IDOT	3.0	--	--	--	--	--	--
					Total Volume of Impacted Soil in Construction Zone:	**3.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
ISGS #3530-31 (Parking Lot)												
3530-31-B01	Station 1+13 to Station 2+20, 0 to 55 feet RT (E Water St)	pH, VOCs	Lead (T/S)	Roadway construction, curb & gutter	Excavation volume provided by IDOT	--	--	--	--	148.1	--	--
				Storm Sewer	Excavation volume provided by IDOT	--	--	--	--	23.1	--	--
				Traffic Signals	Excavation volume provided by IDOT	--	--	--	--	7.0	--	--
3530-31-B02	Station 1+54 to Station 2+27, 0 to 42 feet RT (N Main St)	pH	None	Roadway construction, curb & gutter	Excavation volume provided by IDOT	--	--	--	--	--	97.9	--
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**178.0**	**98.0**	**0.0**
ISGS #3530-34 (Loos Law Office)												
3530-34-B01	Station 1266+57 to Station 1267+02, 0 to 55 feet LT (IL 13/IL 154/W Water St)	pH, arsenic, and manganese	None	Roadway construction, grading, curb & gutter,	Excavation volume provided by IDOT	--	--	--	--	14.0	--	--
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**14.0**	**0.0**	**0.0**
ISGS #3530-35 (McDonald's)												
3530-35-B01	Station 1266+23 to Station 1266+57, 0 to 55 feet LT (IL 13/IL 154/W Water St)	Lead, manganese	Benzo(a)pyrene	Roadway construction, curb,gutter, pavement removal & storm sewer	Excavation volume provided by IDOT	--	--	--	--	34.6	--	--

TABLE 4-4 ESTIMATE OF IMPACTED SOIL WITHIN IDOT CONSTRUCTION AREAS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Affected Stationing	Contaminants of Concern			Excavation Dimension Assumption[a]	Estimated Volume and Classification of Impacted Soil (cubic yards)[a] Standard Specifications, Article 669.05						
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Construction Feature Involving Excavation of Impacted Soil		(a)(1)	(a)(2)	(a)(3)	(a)(4)	(a)(5)	(b)(1)	(c)
3530-35-B02	Station 1265+80 to Station 1266+23, 0 to 55 feet LT (IL 13/IL 154/W Water St)	Tetrachloroethene, trichloroethene, lead	Benzo(a)pyrene	Roadway construction, curb,gutter, pavement removal & storm sewer	Excavation volume provided by IDOT	--	--	--	--	40.3	--	--
3530-35-B03	Station 1263+98 to Station 1265+80, 0 to 55 feet LT (IL 13/IL 127/ S Main St and IL 13/IL 154/W Water St)	Lead, manganese	Benzo(a)pyrene, arsenic	Roadway construction, curb,gutter, pavement removal & storm sewer	Excavation volume provided by IDOT	--	--	--	--	70.6	--	--
				Light pole & traffic signal	Excavation volume provided by IDOT	--	--	--	--	7.0	--	--
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**152.0**	**0.0**	**0.0**
ISGS #3530-37 (Vacant Lot)												
3530-37-B02	Station 1263+30 to Station 1263+83, 72 to 141 feet RT (IL 13/IL 127/ S Main St)	pH	Arsenic	Roadway construction, curb,gutter, pavement removal	Excavation volume provided by IDOT	187.2	--	--	--	--	--	--
				Storm sewer	Excavation volume provided by IDOT	44.0	--	--	--	--	--	--
					Total Volume of Impacted Soil in Construction Zone:	**231.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
ISGS #3530-39 (Vacant Lot)												
3530-39-B01	Station 1264+59 to Station 1265+11, 0 to 85 feet RT (IL 13/IL 127/ S Main St)	pH and manganese	None	Roadway construction, curb,gutter, pavement removal	Excavation volume provided by IDOT	--	--	--	--	--	--	151.7
				Storm Sewer	Excavation volume provided by IDOT	--	--	--	--	--	--	70.0
				Traffic signal &Light pole	Excavation volume provided by IDOT	--	--	--	--	--	--	7.0
3530-39-B02	Station 1264+24 to Station 1264+59, 0 to 85 feet RT (IL 13/IL 127/ S Main St)	pH	Arsenic	Roadway construction, curb,gutter, pavement removal	Excavation volume provided by IDOT	84.3	--	--	--	--	--	--

TABLE 4-4 ESTIMATE OF IMPACTED SOIL WITHIN IDOT CONSTRUCTION AREAS
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring ID	Affected Stationing	Contaminants of Concern			Excavation Dimension Assumption[a]	Estimated Volume and Classification of Impacted Soil (cubic yards)[a] Standard Specifications, Article 669.05						
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Construction Feature Involving Excavation of Impacted Soil		(a)(1)	(a)(2)	(a)(3)	(a)(4)	(a)(5)	(b)(1)	(c)
3530-39-B05	Station 1264+17 to Station 1264+36, 85 to 143 feet RT (IL 13/IL 127/ S Main St)	pH and manganese	None	Roadway construction, curb,gutter, pavement removal	Excavation volume provided by IDOT	--	--	--	--	--	--	45.0
					Total Volume of Impacted Soil in Construction Zone:	**84.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**274.0**
ISGS #3530-40 (Perry County Jail and Sheriff's Office)												
3530-40-B01	Station 1+43 to Station 2+30, 0 to 70 feet RT (E Water St)	Manganese	None	Roadway construction, curb,gutter, pavement removal	Excavation volume provided by IDOT	--	--	--	--	15.0	--	--
				Storm Sewer	Excavation volume provided by IDOT	--	--	--	--	60.0	--	--
				Traffic signal &Light pole	Excavation volume provided by IDOT	--	--	--	--	7.0	--	--
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**82.0**	**0.0**	**0.0**
ISGS #3530-47 (Dairy Queen)												
3530-47-B01	Station 1261+78 to Station 1262+64, 0 to 65 feet RT (IL 13/IL 127/ S Main St)	Manganese	None	Roadway construction, curb,gutter, pavement removal & storm sewer	Excavation volume provided by IDOT	--	--	--	--	--	--	95.0
					Total Volume of Impacted Soil in Construction Zone:	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**95.0**

Notes:

[a] Estimated excavation volumes are based on information provided by IDOT. Impacted soil volumes for each boring were estimated using the cut volumes calculated from cross sections supplied by IDOT and engineering plan drawings of the proposed bridge replacement.

Key:

IDOT = Illinois Department of Transportation.

ISGS = Illinois State Geological Survey.

MAC = Maximum allowable concentration of chemical constituents in uncontaminated soil used as fill material at regulated fill operations.

SCGIER = Soil component of the groundwater ingestion exposure route.

Table 4-5 Estimates of Impacted Soil Within Proposed Property Acquisition Areas
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Boring	Contaminants of Concern	Type of Property Acquisition Within Impacted Soil	Estimated Area of Impacted Soil Within Acquisition Area (sq. yards)	Estimated Vertical Extent of Impacted Soil Within Acquisition Area (feet)	Estimated Volume of Impacted Soil[a] (cubic yards)
ISGS #3530-35 (McDonald's)					
3530-35-B01, 3530-35-B02, 3530-35-B03	PCE, TCE[b]	ROW (Partial Take)	172.6	6.0	345.1
				Estimated Volume of Impacted Soil in Acquisition Area:	345.1
				Approximate Volume of Soil in Acquisition Area to be Excavated During Construction:	151.0
				Net Volume of Impacted Soil in Acquisition Area:	194.1

Note:

[a] The volume estimates are based on the following assumptions:

- Impacted soil volumes can be estimated using simple geometric shapes.
- The vertical extent of contamination is assumed to extend from the surface to the depth where the exceedance was detected.
- The lateral extent of impacted soil is assumed to extend one-half the distance between an impacted boring and an adjacent unimpacted boring.
- The net volume of impacted soil within proposed ROW is estimated by subtracting the volume of impacted soil in proposed ROW that is also within the proposed construction excavation areas.

[b] COCs did not exceed TACO Tier 1 objectives. This site is included in the calculations due to the history of the site. And the proximity of PSI borings to a former LUST area.

Key:

ISGS = Illinois State Geological Survey.
ROW = Right of way.
TACO = Tiered Approach to Corrective Action Objectives.

Table 5-3 Contaminants of Concern Above TACO Tier 1 Remediation Objectives for Construction Worker Exposure
FAP 42/FAP 841 (IL 127/IL 154)
Pinckneyville, Perry County, Illinois

Site	Boring	Sample Depth (ft)	Contaminant of Concern	Detected Concentration (mg/kg)	TACO Tier 1 Soil RO for Construction Worker Exposure	
					Ingestion (mg/kg)	Inhalation (mg/kg)
ISGS #3530-40 (Perry County Jail and Sheriff's Office)	3530-40-B01	10 - 15	Manganese	4300	4,100	8700

Key:
mg/kg = Milligrams per kilogram.
RO = Remediation Objective.
TACO = Tiered Approach to Corrective Action Objectives.

FIGURES

LEGEND

3530 - ISGS PESA SITE AREA

- FAP 42/ FAP 841 (IL 127/IL 154)

1. ISGS #3530-37 (Vacant Lot)
2. ISGS #3530-39 (Vacant Lot)

wsp

SITE INVESTIGATION AREA

ROUTE: FAP 42/FAP 841 (IL 127/IL 154)
CITY: Pickneyville
COUNTY: Perry

SCALE: 0 Miles 0.04

FIGURE NO: 2-1

CAD FILE: EE9 WO47G PSI.DWG

ISGS # 3530-34
LOOS LAW OFFICE
RECs

34-B01
0-3': 6.1

35-B01
0-6': 7.9
6-12': 7.4

APPROXIMATE RECOVERY WELL LOCATION

APPROXIMATE LOCATION OF FORMER PUMPS

ISGS # 3530-35
McDONALD'S
RECs

APPROXIMATE LOCATION OF FORMER TANKS

ISGS # 3530-44

35-B02
0-6': 8.5
6-12': 7.2

35-B04
0-4': 7.4

35-B03
0-6': 8.2
6-12': 7.1/7.2

APPROXIMATE RECOVERY WELL LOCATION

W. WATER STREET/ IL 13/IL 154

WEST JACKSON STREET

WEST LAUREL STREET

S. MAIN STREET/IL 13/IL 127

N. MAIN STREET/ IL 127

MULBERRY STREET

EAST JACKSON STREET

ISGS # 3530-15
VACANT LOT
RECs

15-B01
0-3': 5.8

ISGS # 3530-28
PERRY COUNTY
COURT HOUSE
NO RECs

39-B03
0-6': 7.4
6-12': 6.5

47-B01
0-3': 8.0

ISGS # 3530-47
DAIRY QUEEN
RECs

37-B01
0-6': 8.3
6-12': 7.6

ISGS # 3530-36

39-B02
0-6': 4.3
6-12': 5.6

39-B01
0-5': 4.8
5-10': 5.8
10-15': 6.9

39-B06
0-6': 7.4/7.1
6-12': 6.3

ISGS # 3530-38

ISGS # 3530-37
VACANT LOT
RECs

ISGS # 3530-39
VACANT LOT
RECs

31-B02
0-6': 4.3
6-12': 6.1

16-B01
0-6': 8.1
6-12': 8.2

APPROXIMATE LOCATION OF FORMER UST

16-B10
0-6': 6.6
6-12': 7.0

16-B09
0-6': 6.6
6-12': 5.4

16-B08
0-6': 5.6
6-12': 5.5

16-B07
0-6': 5.2
6-12': 5.6

16-B06
0-6': 7.6
6-12': 6.8

ISGS # 3530-16
VACANT LOT
RECs

16-B04
0-6': 5.3
6-12': 5.7

16-B05
0-6': 7.2
6-12': 6.3

ISGS # 3530-16
VACANT LOT
RECs

16-B03
0-6': 4.5
6-12': 5.5

16-B02
0-6': 7.4
6-12': 6.5

37-B02
0-6': 5.1
6-12': 5.6

30-B01
0-2': 8.0

29-B01
0-2': 8.2

39-B04
0-6': 7.6
6-12': 7.2

39-B05
0-6': 7.2
6-12': 5.9

ISGS # 3530-40 PERRY
COUNTY JAIL & SHERIFF'S
OFFICE
RECs

ISGS # 3530-31
PARKING LOT
RECs

ISGS # 3530-30
COMMERCIAL &
RESIDENTIAL
SPACE
RECs

ISGS # 3530-29
SHEAR ATTITUDE
SALON
RECs

18-B01
0-3': 8.3

ISGS # 3530-18
SHAMROCK
REALITY
RECs

40-B01
0-5': 6.3
5-10': 6.6
10-15': 6.8

31-B01
0-5': 5.1/5.0
5-10': 6.6
10-15': 7.6, PID 24.5 MU

ISGS # 3530-32
SI EYE CARE
RECs

LEGEND

ALIGNMENT & WAY ITEMS	EXISTING	PROPOSED
ROAD		
SIDEWALK		
CENTERLINES		
RIGHT OF WAY ITEMS		
LIMITS OF CONSTRUCTION		
ROW		
APPROXIMATE PESA SITE		

BORING LOCATION (DEPTH: pH) — 3530-46-B01 (2-4';8.8)

LIGHTING & CONDUIT

LIGHT POST

PROPOSED DOUBLE HANDHOLE

PROPOSED CONTROLLER

PROPOSED HEAVY-DUTY HANDHOLE

PROPOSED HANDHOLE

PROPOSED CONSTRUCTION AREA WHERE SOIL MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 669.05(a)(2), (a)(3)

PROPOSED CONSTRUCTION AREA WHERE SOIL MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 669.05(a)(1)

PROPOSED CONSTRUCTION AREA WHERE SOIL MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 669.05(a)(5)

PROPOSED CONSTRUCTION AREA WHERE SOIL MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 669.05(b)(1)

PROPOSED CONSTRUCTION AREA WHERE SOIL MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 669.05(c)

NOTE: ALL BORING IDs ARE PRECEDED BY 3530-

SCALE IN FEET
0 60 120 180

wsp	DRAWN BY: V. GEE	DESIGNED BY: J. HUGHES	PTB/JOB: 172-027/ P-30-010-14	INVESTIGATION DATA SUMMARY FAP 42/FAP 841 (IL 127/IL 154) STA. 1261+00 TO 2+90	IDOT PROJECT #: D-99-011-018	BDE SEQ. #: 21308	CITY: PICKNEYVILLE	DATE: 5/28/21	FIGURE 4-1
	CHECKED BY: J. HUGHES	APPROVED BY: D. TIEBOUT	WORK ORDER: 093		ROUTE: FAP 42/FAP 841	CONTRACT #: 78624	COUNTY: PERRY	SCALE: 1" = 60'	REVISION 0

CAD FILE: EE9 WO47G PSI DWG

SITE	ISGS #3530-15 (Vacant Lot)	ISGS #3530-16 (Vacant Lot)															Comparison Criteria					
BORING	3530-15-B01	3530-16-B01		3530-16-B02		3530-16-B03		3530-16-B04		3530-16-B05		3530-16-B06		3530-16-B07			MACs			TACO		
SAMPLE	3530-15-B01 (0-3)	3530-16-B01 (0-6)	3530-16-B01 (6-12)	3530-16-B02 (0-6)	3530-16-B02 (6-12)	3530-16-B03 (0-6)	3530-16-B03 (6-12)	3530-16-B04 (0-6)	3530-16-B04 (6-12)	3530-16-B05 (0-6)	3530-16-B05 (6-12)	3530-16-B06 (0-6)	3530-16-B06 (6-12)	3530-16-B07 (0-6)	3530-16-B07 (6-12)							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-3	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12							
pH	5.8#	8.1	8.2	7.4	6.5	4.5#	5.5#	5.3#	5.7#	7.2	6.3	7.6	6.8	5.2#	5.6#							
PID (meter units)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SVOCs (mg/kg)																						
Benzo(a)pyrene	ND U	ND U	0.039	ND U	ND U	ND U	ND U	ND U	ND U	0.58 †	ND U	ND U	ND U	ND U	ND U		0.09	2.1	1.3	2.1	17	–
Inorganics (mg/kg)																						
Chromium	21	14	16	17	16	18	16	20	14	20	16	17	16	22 †	14		21	–	–	230	690	–
Iron	24,000 †m	19,000 †m	13,000	24,000 †m	14,000	21,000 †m	13,000	22,000 †m	12,000	23,000 †m	12,000	18,000 †m	15,000	24,000 †m	12,000		15,000	15,900	–	–	–	–
Lead	15	13 J	20	16	11	13	11	14	8.1	45	7.7	13	11	16	8.1		107	–	–	400	700	–
Manganese	180	330 J	180	600	260	160	360	330	270	250	210	330	680 †m	250	210		630	636	–	1,600	4,100	–
Selenium	0.39 J	0.78	0.41 J	1.6 †	0.45 J	ND U	ND U	0.46 J	ND U	0.54 J	ND U	ND U	ND U	0.41 J	ND U		1.3	–	–	390	1,000	–
Silver	0.31	0.31	0.44	0.26 J	0.48	0.35	0.58	0.41	0.36	11 †	0.40	0.32	0.28	0.33	0.48		4.4	–	–	390	1,000	–
TCLP Metals (mg/L)																						
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U		–	–	–	–	–	0.1
Iron	ND U	ND U	0.21 J	0.22 J	0.55	0.37 J	ND U	0.76	ND U	0.50	ND U	0.30 J	ND U	0.24 J	0.30 J		–	–	–	–	–	5
Lead	ND U	0.013 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U		–	–	–	–	–	0.0075
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		–	–	–	–	–	0.15
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U		–	–	–	–	–	0.05
Silver	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U		–	–	–	–	–	0.05
SPLP Metals (mg/L)																						
Lead	NA	0.016 L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		–	–	–	–	–	0.0075

SITE	ISGS #3530-16 (Vacant Lot)						ISGS #3530-18 (Shamrock Realty)	ISGS #3530-29 (Shear Attitude Hair & Nail Salon)	(Commercial Unit and Residential Space)	ISGS #3530-31 (Parking Lot)						ISGS #3530-34 (Loos Law Office)	Comparison Criteria					
BORING	3530-16-B08		3530-16-B09		3530-16-B10		3530-18-B01	3530-29-B01	3530-30-B01	3530-31-B01				3530-31-B02		3530-34-B01	MACs			TACO		
SAMPLE	3530-16-B08 (0-6)	3530-16-B08 (6-12)	3530-16-B09 (0-6)	3530-16-B09 (6-12)	3530-16-B10 (0-6)	3530-16-B10 (6-12)	3530-18-B01 (0-3)	3530-29-B01 (0-2)	3530-30-B01 (0-2)	3530-31-B01 (0-5)	3530-31-B01 (0-5)D	3530-31-B01 (5-10)	3530-31-B01 (10-15)	3530-31-B02 (0-6)	3530-31-B02 (6-12)	3530-34-B01 (0-3)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12	0-6	6-12	0-3	0-2	0-2	0-5	0-5	5-10	10-15	0-6	6-12	0-3						
pH	5.6#	5.5#	6.6	5.4#	6.6	7.0	8.3	8.2	8.0	5.1#	5.0#	6.6	7.6	4.3#	6.1#	6.1#						
PID (meter units)	–	–	–	–	–	–	–	–	–	–	–	–	0.5 - 24.5**	–	–	–	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
Inorganics (mg/kg)																						
Arsenic	7.4	5.5	7.4	4.0	7.2	3.4	8.4	9.8	9.0	7.9	7.9	3.0	6.3	7.3	4.7	14 †mr	11.3	13	–	13	61	--
Iron	16,000 †m	16,000 †m	16,000 †m	15,000	16,000 †m	12,000	20,000 †m	21,000 †m	19,000 †m	21,000 †m	20,000 †m	12,000	19,000 †m	20,000 †m	15,000	20,000 †m	15,000	15,900	–	--	--	--
Lead	23	12	12	8.6	130 †	34	170 †	20	16	13	14	9.0	13	14	8.2	30	107	--	--	400	700	--
Manganese	1,600 †m	450	200	120	960 †m	300	520	590	290	250	280	150	370	290	250	3,600 †mr	630	636	–	1,600	4,100	--
Thallium	2.9 J †	0.78	0.41 J	ND U	1.5	0.48 J	0.28 J	ND U	0.50 J	1.0	1.0	0.48 J	0.87	0.96	0.69	ND UJ	2.6	--	–	6.3	160	--
TCLP Metals (mg/L)																						
Iron	ND U	0.37 J	ND U	ND U	0.47	0.21 J	0.30 J	0.93	0.32 J	ND U	ND U	ND U	0.66	ND U	ND U	0.56	--	--	–	--	--	5
Lead	ND U	ND U	0.015 L	ND U	0.018 L	0.019 L	0.021 L	ND U	ND U	ND U	ND U	ND U	0.0094 L	ND U	ND U	ND U	--	--	–	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	–	--	--	0.15
Thallium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	–	--	--	0.002
SPLP Metals (mg/L)																						
Lead	NA	NA	0.0095 L	NA	0.031 L	0.028 L	0.21 L	NA	NA	NA	NA	NA	0.041 L	NA	NA	NA	--	--	–	--	--	0.0075

Key to Data Table

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
mg/kg = Milligrams per kilogram.
mg/L = Milligrams per liter.
MSA = Metropolitan Statistical Area
TACO = Tiered Approach to Corrective Action Objectives
TCLP = Toxicity Characteristic Leaching Procedure.
SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.
NA = Not analyzed.
J = Estimated value.
U = Analyte was analyzed for but not detected.
# = pH is less than 6.25 or greater than 9.0 standard units.
† = Concentration exceeds the most stringent MAC.
J = Estimated value.
U = Analyte was analyzed for but not detected.
# = pH is less than 6.25 or greater than 9.0 standard units.

† = Concentration exceeds the most stringent MAC.
m = Concentration exceeds the MAC for an MSA.
r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.
c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.
L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.
= Concentration exceeds applicable comparison criteria.
= Headspace reading exceeds background levels
= Concentration exceeds the most Stringent MAC, but is below the MSA MAC.

wsp	DRAWN BY: V. GEE	DESIGNED BY: J. HUGHES	PTB/JOB: 172-027/ P-30-010-14	CONTAMINANTS OF CONCERN FAP 42/FAP 841 (IL 127/IL 154) ISGS Sites 3530-15 Through 3530-34	IDOT PROJECT #: D-99-011-018	BDE SEQ. #: 21308	CITY: PICKNEYVILLE	DATE: 5/28/21	FIGURE 4-2
	CHECKED BY: J. HUGHES	APPROVED BY: D. TIEBOUT	WORK ORDER: 093		ROUTE: FAP 42/FAP 841	CONTRACT #: 78624	COUNTY: PERRY	SCALE: N/A	REVISION 0

CAD FILE: EE9 WO47G PSI DWG

SITE	ISGS #3530-35 (McDonald's)								ISGS #3530-37 (Vacant Lot)				ISGS #3530-39 (Vacant Lot)			Comparison Criteria					
BORING	3530-35-B01		3530-35-B02		3530-35-B03			3530-35-B04	3530-37-B01		3530-37-B02		3530-39-B01			MACs			TACO		
SAMPLE	3530-35-B01 (0-6)	3530-35-B01 (6-12)	3530-35-B02 (0-6)	3530-35-B02 (6-12)	3530-35-B03 (0-6)	3530-35-B03 (6-12)	3530-35-B03 (6-12)D	3530-35-B04 (0-4)	3530-37-B01 (0-6)	3530-37-B01 (6-12)	3530-37-B02 (0-6)	3530-37-B02 (6-12)	3530-39-B01 (0-5)	3530-39-B01 (5-10)	3530-39-B01 (10-15)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12	0-6	6-12	6-12	0-4	0-6	6-12	0-6	6-12	0-5	5-10	10-15						
pH	7.9	7.4	8.5	7.2	8.2	7.1	7.2	7.4	8.3	7.6	5.1#	5.6#	4.8#	5.8#	6.9						
PID (meter units)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)																					
Tetrachloroethene	0.0039	ND U	7.1 †	0.00078 J	0.0018	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
Trichloroethene	ND U	ND U	0.16 †	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--
SVOCs (mg/kg)																					
Benzo(a)pyrene	0.21 †	ND U	0.24 †	ND U	0.39 †	ND U	ND U	ND U	0.012 J	ND U	ND U	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Inorganics (mg/kg)																					
Arsenic	9.3	2.0	8.2	2.8	12 J †	9.6	11	11	4.7	6.2	13 †	4.9	8.7 J	3.3	4.2	11.3	13	--	13	61	--
Boron	49 †	1.4 J	12	1.2 J	25 J	1.2 J	1.2 J	0.69 J	4.2	1.1 J	3.0 J	1.8 J	2.8 J	1.1 J	0.91 J	40	--	--	16,000	41,000	--
Cadmium	1.1	ND U	0.87	ND U	1.4	ND U	ND U	ND U	0.10 J	ND U	0.027 J	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Iron	23,000 †m	9,500	14,000	9,700	22,000 J †m	29,000 †m	36,000 †m	23,000 †m	12,000	16,000 †m	17,000 †m	15,000	20,000 †m	12,000	15,000	15,000	15,900	--	--	--	--
Lead	200 †	9.7	290 †	30	250 †	14	15	16	78	10	26	12	15 J	8.2	8.6	107	--	--	400	700	--
Manganese	1,200 †m	150	530	160	790 J †m	230	260	170	280	360	420	470	1,100 J †m	640 †m	110	630	636	--	1,600	4,100	--
Mercury	0.90 †	0.034	1.3 †	0.019	1.4 †	0.025	0.027	0.073	0.58	0.036	0.11	0.064	0.033	ND U	0.026	0.89	--	--	10	0.1	--
TCLP Metals (mg/L)																					
Boron	0.50	0.40 J	0.45 J	0.69	0.53	0.29 J	0.44 J	ND U	0.11 J	0.14 J	0.20 J	0.23 J	0.051 J	0.22 J	0.15 J	--	--	--	--	--	2
Cadmium	0.0065 L	ND U	0.0065 L	ND U	0.0070 L	ND U	ND U	0.0030 J	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Iron	ND U	ND U	ND U	ND U	ND U	ND U	0.30 J	0.23 J	ND U	ND U	ND U	ND U	1.0	0.23 J	0.84	--	--	--	--	--	5
Lead	0.013 L	ND U	0.27 L	0.041 L	0.034 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
SPLP Metals (mg/L)																					
Cadmium	ND U	NA	ND U	NA	ND U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	0.14 L	NA	0.52 L	0.013 L	0.24 L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075

SITE	ISGS #3530-39 (Vacant Lot)											ISGS #3530-40 (Perry County Jail and Sheriff's Office)			ISGS #3530-47 (Dairy Queen)	Comparison Criteria					
BORING	3530-39-B02		3530-39-B03		3530-39-B04		3530-39-B05		3530-39-B06			3530-40-B01			3530-47-B01	MACs			TACO		
SAMPLE	3530-39-B02 (0-6)	3530-39-B02 (6-12)	3530-39-B03 (0-6)	3530-39-B03 (6-12)	3530-39-B04 (0-6)	3530-39-B04 (6-12)	3530-39-B05 (0-6)	3530-39-B05 (6-12)	3530-39-B06 (0-6)	3530-39-B06 (0-6)D	3530-39-B06 (6-12)	3530-40-B01 (0-5)	3530-40-B01 (5-10)	3530-40-B01 (10-15)	3530-47-B01 (0-3)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	0-6	6-12	0-5	5-10	10-15	0-3						
pH	4.3#	5.6#	7.4	6.5	7.6	7.2	7.2	5.9#	7.4	7.1	6.3	6.3	6.6	6.8	8.0						
PID (meter units)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
Inorganics (mg/kg)																					
Arsenic	13 †	3.1	8.7	6.3	7.7	5.0	9.0	4.2	7.3	8.7	3.8	9.3	3.5	5.7	7.8	11.3	13	--	13	61	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.49	0.46	ND U	0.38 J	ND U	ND U	ND U	5.2	--	--	78	200	--
Chromium	24 †	15	17	17	15	16	14	17	17	16	17	18 J	15	12	13	21	--	--	230	690	--
Cobalt	5.6	3.9	11	13	8.9	8.5	9.3	14	9.4	10	5.6	8.6 J	4.4	28 †	10	20	--	--	4,700	12,000	--
Iron	28,000 †m	12,000	19,000 †m	21,000 †m	19,000 †m	15,000	17,000 †m	15,000	20,000 †m	20,000 †m	15,000	21,000 †m	13,000	18,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	21	7.1	12	13	11	9.8	19	12	14	16	11	39 J	7.9	20	23	107	--	--	400	700	--
Manganese	220	160	480	500	420	330	1,200 †m	1,100 †m	430	580	160	740 J †m	160	4,300 †mrc	860 †m	630	636	--	1,600	4,100	--
Nickel	16	18	22	14	24	25	9.4	24	24	26	11	13	17	30	9.5	100	--	--	1,600	4,100	--
TCLP Metals (mg/L)																					
Cadmium	ND U	ND U	0.0032 J	ND U	0.0048 J	0.0056 L	ND U	ND U	0.013 L	0.0039 J	ND U	0.0021 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.14 L	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	2.9	ND U	ND U	1.0	ND U	ND U	0.20 J	ND U	ND U	ND U	1.5	0.29 J	ND U	ND U	0.91	--	--	--	--	--	5
Lead	0.010 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U	ND U	0.030	ND U	0.19 L	--	--	--	--	--	0.1
Nickel	ND U	0.043	ND U	ND U	ND U	0.056	ND U	0.012 J	0.015 J	ND U	ND U	ND U	0.030	ND U	0.19 L	--	--	--	--	--	0.1
SPLP Metals (mg/L)																					
Cadmium	NA	NA	NA	NA	NA	ND U	NA	NA	ND U	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.068	--	--	--	--	--	0.1
Lead	ND U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.040	--	--	--	--	--	0.1

Key to Data Table

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

= pH is less than 6.25 or greater than 9.0 standard units.

† = Concentration exceeds the most stringent MAC.

J = Estimated value.

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= pH is less than 6.25 or greater than 9.0 standard units.

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m = Concentration exceeds the MAC for an MSA.

r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.

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wsp	DRAWN BY: V. GEE	DESIGNED BY: J. HUGHES	PTB/JOB: 172-027/ P-30-010-14	CONTAMINANTS OF CONCERN FAP 42/FAP 841 (IL 127/IL 154) ISGS Sites 3530-35 Through 3530-47	IDOT PROJECT #: D-99-011-018	BDE SEQ. #: 21308	CITY: PICKNEYVILLE	DATE: 5/28/21	FIGURE 4-3 REVISION 0
	CHECKED BY: J. HUGHES	APPROVED BY: D. TIEBOUT	WORK ORDER: 093		ROUTE: FAP 42/FAP 841	CONTRACT #: 78624	COUNTY: PERRY	SCALE: N/A	

APPENDIX

A ISGS PESA EXCERPTS AND SOIL EVALUATION

IDOT Sequence #: 21308 **ISGS: 3530**
IDOT Job #: D99-011-18 **IDOT District #: 9**

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

FINAL REPORT

DATE: October 12, 2018

IDOT DESIGN DATE: December 15, 2018

SURVEY TARGET DATE: December 15, 2018

DATE REQUEST RECEIVED: January 5, 2018

LOCATION: FAP 42/FAP 841 (IL 127/IL 154), Pinckneyville Square, Pinckneyville, Perry County; Pinckneyville quadrangle (USGS 7.5-minute topographic map), T5S, R3W, Section 24.

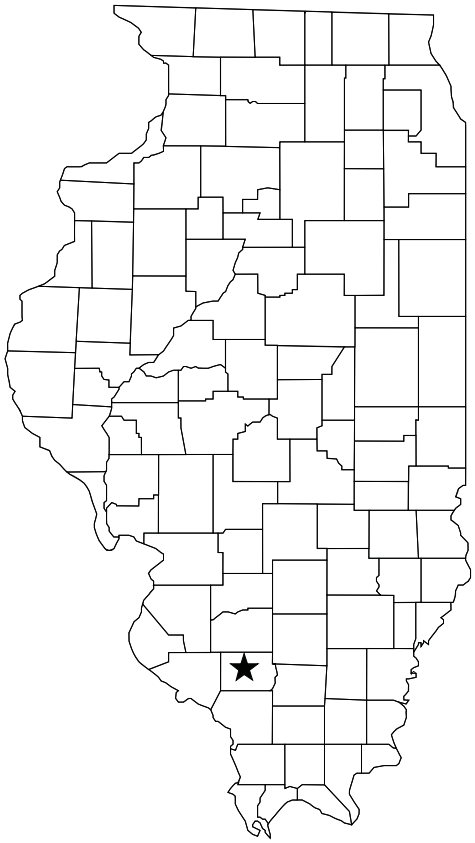


Table of Contents

GLOSSARY OF ACRONYMS

AAI	-	All Appropriate Inquiries
ACM	-	asbestos-containing material
AST	-	aboveground storage tank
ASTM	-	American Society for Testing and Materials
AUL	-	activity and use limitation (includes institutional controls, engineered barriers, and HAAs)
bgs	-	below ground surface
BOL	-	Bureau of Land (IEPA)
BTEX	-	benzene, toluene, ethylbenzene, and total xylene
CDPH	-	Chicago Department of Public Health
CCDD	-	Clean construction and demolition debris
CERCLIS	-	Comprehensive Environmental Response, Compensation, and Liability Information System
CTA	-	Chicago Transit Authority
ERNS	-	Emergency Response Notification System
FEMA	-	Federal Emergency Management Agency
FHWA	-	Federal Highway Administration
FOIA	-	Freedom of Information Act
GIS	-	Geographic Information System
GRO	-	Groundwater Remediation Objective
HAA	-	Highway Authority Agreement
IDNR	-	Illinois Department of Natural Resources
IDOT	-	Illinois Department of Transportation
IEMA	-	Illinois Emergency Management Agency
IEPA	-	Illinois Environmental Protection Agency
IMD	-	Illinois Manufacturers Directory
ISGS	-	Illinois State Geological Survey
ISWS	-	Illinois State Water Survey
LUST	-	leaking underground storage tank
µg/kg	-	micrograms per kilogram (ppb)
µg/l	-	micrograms per liter (ppb)
mg/kg	-	milligrams per kilogram (ppm)
mg/l	-	milligrams per liter (ppm)
M.M.	-	mile marker
MOU	-	memorandum of understanding
M.P.	-	mile post
MSSA	-	Mahomet Sole Source Aquifer
MTBE	-	methyl tertiary butyl ether
NFR	-	No Further Remediation
NPL	-	National Priorities List
NRCS	-	Natural Resources Conservation Service
OER	-	Office of Emergency Response (IEPA)
OSFM	-	Office of the State Fire Marshal
PAA	-	Permit Access Agreement
PAH/PNA	-	polynuclear aromatic hydrocarbon
PCB	-	polychlorinated biphenyl
PESA	-	Preliminary Environmental Site Assessment
P.G.	-	Professional Geologist
ppb	-	parts per billion (equivalent to µg/kg for solids, and µg/l in liquids)
ppm	-	parts per million (equivalent to mg/kg in solids, and mg/l in liquids)
PRP	-	Potentially Responsible Party
PSI	-	Preliminary Site Investigation
RCRA	-	Resource Conservation and Recovery Act
REC	-	recognized environmental condition
ROW	-	right-of-way
SEMS	-	Superfund Enterprise Management System
SGRO	-	Soil Gas Remediation Objective
SIC	-	Standard Industrial Classification
SPLP	-	synthetic precipitation leaching procedure
SRO	-	Soil Remediation Objective
SRP	-	Site Remediation Program
SSTS	-	Section Seven Tracking System (USEPA)
SVOC	-	semi-volatile organic compound
TACO	-	Tiered Approach to Corrective Action Objectives (IEPA)
TCLP	-	toxicity characteristic leaching procedure
TPH	-	total petroleum hydrocarbons
TRI	-	Toxics Release Inventory
UIC	-	Underground Injection Control (IEPA)
USDA	-	United States Department of Agriculture
USEPA	-	United States Environmental Protection Agency
USGS	-	United States Geological Survey
UST	-	underground storage tank
VOC	-	volatile organic compound

EXECUTIVE SUMMARY

This report presents the results of an environmental site assessment for the improvements to IL 127 and IL 154 at Pinckneyville Square, Pinckneyville, Perry County. This report was prepared on behalf of the Illinois Department of Transportation (IDOT) by the Illinois State Geological Survey (ISGS).

The following sites were examined for this project. The tables below list sites along the project for which recognized environmental conditions (RECs)* were identified for each address or address range (Table 1); sites along the project for which only de minimis conditions were identified (Table 2); sites along the project for which no RECs or de minimis conditions were identified (Table 3); and sites adjoining but not on the project that were identified on environmental databases (Table 4). Further investigation of sites with RECs may be desired.

Table 1. The following sites along the project were determined to contain RECs:

Property name IDOT parcel #	ISGS site #	REC(s), including de minimis conditions	Regulatory database(s)	Land use
Mixed-use building NA	3530-3	Potential chemical use; potential ACM and lead paint	None	Commercial/ residential
Vacant lot NA	3530-11	UST; former UST; former ASTs; evidence of former chemical use; transformers	RCRA, BOL, UST	Vacant
Parker Heating & Cooling NA	3530-13	Potential chemical use; potential ACM and lead paint	None	Commercial
Vacant building NA	3530-15	Potential UST(s); potential former chemical use; potential ACM and lead paint	None	Vacant
Vacant lot NA	3530-16	Potential UST(s); potential former chemical use; VOCs; transformers	None	Vacant
Vacant lot NA	3530-17	Potential former chemical use	None	Vacant
Commercial building NA	3530-18	Potential former chemical use; potential ACM and lead paint	None	Commercial

Wittenauer Chiropractic NA	3530-20	Potential UST(s); potential former chemical use; potential ACM and lead paint	None	Commercial
The Twisted Vine NA	3530-22	Potential former chemical use; potential ACM and lead paint	None	Commercial
Senior Life Solutions NA	3530-23	Potential former chemical use; potential ACM and lead paint	None	Commercial
Southern Illinois Rehabilitation NA	3530-24	Potential former chemical use; potential ACM and lead paint	None	Commercial
Commercial building NA	3530-26	Potential former chemical use; potential ACM and lead paint	None	Commercial
Shear Attitude Hair & Nail Salon NA	3530-29	Potential UST(s); potential former chemical use; VOCs; potential ACM and lead paint	None	Commercial
Mixed-use building NA	3530-30	Potential UST(s); potential former chemical use; potential ACM and lead paint	None	Commercial/ residential
Parking lot NA	3530-31	Potential UST(s); potential former chemical use; VOCs	None	Municipal
Southern Illinois Eye Care NA	3530-32	Potential UST(s); potential former chemical use; potential ACM and lead paint	None	Commercial
Murphy-Wall State Bank NA	3530-33	Potential UST(s); potential former chemical use; VOCs; potential ACM and lead paint	None	Commercial
Commercial buildings NA	3530-34	Potential UST; potential AST; evidence of former chemical use; potential ACM and lead paint	RCRA, BOL	Commercial

McDonald's NA	3530-35	Former USTs with a documented release; potential UST(s); former AST; monitoring wells; potential monitoring well; former monitoring wells; potential former chemical use; impacted soil and groundwater; VOCs; transformers; potential ACM and lead paint	BOL, LUST, UST, IEMA	Commercial
Vacant lot NA	3530-37	Potential UST(s); potential former chemical use	BOL	Vacant
Vacant lot NA	3530-39	Potential former chemical use	None	Vacant
Perry County building NA	3530-40	Potential UST(s); potential former chemical use; VOCs; transformers; potential ACM and lead paint	None	Government
Residence NA	3530-41	Potential UST(s); potential former chemical use; potential ACM and lead paint	None	Residential
Parking lot NA	3530-42	AST; potential ACM and lead paint	None	Commercial
Commercial building NA	3530-43	Potential former chemical use; potential ACM and lead paint	None	Commercial
Back Pain Clinic NA	3530-45	Potential former chemical use; potential ACM and lead paint	None	Commercial
Jalisco Mexican Restaurant NA	3530-46	Potential former chemical use; potential ACM and lead paint	None	Commercial
Dairy Queen NA	3530-47	Potential UST(s); potential former chemical use; transformers; potential ACM and lead paint	None	Commercial

Table 2. The following sites along the project were determined to contain de minimis conditions only:

Property name IDOT parcel #	ISGS site #	De minimis condition(s)	Land use
Commercial building NA	3530-1	Transformers; potential ACM and lead paint	Commercial
Residence NA	3530-2	Potential ACM and lead paint	Residential
Residence NA	3530-4	Transformer; potential ACM and lead paint	Residential
Mixed-use building NA	3530-5	Transformer; potential ACM and lead paint	Commercial/ residential
Stuart E. Morgenstern Attorney at Law NA	3530-6	Potential ACM and lead paint	Commercial
Bigham, Tanner, & Foster Attorneys at Law NA	3530-7	Transformers; potential ACM and lead paint	Commercial
Residence NA	3530-8	Potential ACM and lead paint	Residential
Kay's Massage & Wellness Center NA	3530-9	Potential ACM and lead paint	Commercial
Residence NA	3530-10	Potential ACM and lead paint	Residential
Parking lot NA	3530-12	Transformer	Commercial
Commercial building NA	3530-14	Transformers; potential ACM and lead paint	Commercial
Medical Arts NA	3530-21	Potential ACM and lead paint	Commercial
China Buffet NA	3530-25	Potential ACM and lead paint	Commercial
Counseling Office of Lisa Wild, LCPC NA	3530-27	Potential ACM and lead paint	Commercial
Perry County Courthouse NA	3530-28	Potential ACM and lead paint	Government

Commercial building NA	3530-36	Potential ACM and lead paint	Commercial
Mixed-use building NA	3530-38	Transformer; potential ACM and lead paint	Commercial/ residential
First National Insurance NA	3530-44	Transformers; potential ACM and lead paint	Commercial
First National Bank Loan Office NA	3530-48	Potential ACM and lead paint	Commercial
Residence NA	3530-49	Potential ACM and lead paint	Residential
Residences NA	3530-50	Potential ACM and lead paint	Residential
Commercial building NA	3530-51	Transformer; potential ACM and lead paint	Commercial

Table 3. The following site along the project was determined not to contain RECs or de minimis conditions:

Property name IDOT parcel #	ISGS site #	Land use
Vacant lot NA	3530-19	Vacant

Table 4. The following additional sites, adjoining but not on the project, were identified on environmental databases:

Property name	ISGS site #	Regulatory database(s)	Land use
Keene, Donald & Pam	3530-A	BOL	Residential
Keene, Donald & Pam	3530-B	BOL	Commercial

* For all sites:

Where REC(s) are indicated as present, a condition was noted that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the site, as discussed in the text. Potential hazards were not verified by ISGS testing. Radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may also be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

Where RECs are not indicated as present, radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may still be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

For the purposes of this report, the following are considered to be de minimis conditions:

- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
- Use of asbestos-containing materials in building construction.
- Transformers in normal use, unless the transformers were observed to be leaking, appear on an environmental regulatory list, or were otherwise determined to pose a hazard not related to normal use.
- Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial, or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

The following data gaps exist for all PESAs:

- For residences, only areas visible from public roads are inspected.
- Interiors of buildings are not inspected.
- Interiors of agricultural areas are not inspected during growing seasons.

Radon and biological hazards are not considered in this PESA unless specifically noted.

NA = No parcel number was supplied by IDOT for this site.

Although potential natural hazards and undermining, if present, are described in this report, they are not considered as RECs or de minimis conditions for the purposes of this report, and are therefore not listed in the tables above. Wetlands and flooding hazards are not evaluated as part of this report.

INTRODUCTION

This is the **Final Report** of a preliminary environmental assessment by the ISGS of natural and man-made hazards that may be encountered for the improvements to IL 127 and IL 154 at Pinckneyville Square, Pinckneyville, Perry County (Attachment 1). Acquisition of additional ROW or easement and excavation or subsurface utility relocation are anticipated for this project. No in-stream work or railroad ROW involvement are expected. IL 13 is known as S. Main Street (north and south alignment) and W. Water Street (east and west alignment) in the town of Pinckneyville, and will be referred to as such in this report. IL 127 is known as N. Main Street north of Water Street and as S. Main Street south of Water Street in the town of Pinckneyville, and will be referred to as such in this report. IL 154 is known as W. Water Street west of Main Street and as E. Water Street east of Main Street in the town of Pinckneyville, and will be referred to as such in this report. No stationing information was provided by IDOT for this project. This report identifies and evaluates recognized environmental conditions (RECs) that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the proposed project.

This assessment has been prepared using historical and geological information including aerial photographs, U.S. Geological Survey topographic maps, plat maps, file information of the ISGS regulatory file information from federal, state, and other agencies, and various other sources of information. An on-site investigation has been completed. The specific methods used to conduct the assessment are contained in "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects" (Erdmann et al., 2014).

This Preliminary Environmental Site Assessment (PESA) was performed in compliance with the IDOT-ISGS PESA Manual (Erdmann et al., 2014) and not with the All Appropriate Inquiries environmental assessment standard (40 CFR Part 312) that took effect on November 1, 2006, or with the ASTM standard E1527-05 or E1527-13.

GEOLOGY

Bedrock geology. The uppermost bedrock in the project area consists of the Pennsylvanian-age Shelburn-Patoka Formation. The Shelburn-Patoka Formation is composed of claystones and mudstones interbedded with sandstones and coal and limestone beds.

Surficial geology. The total thickness of surficial deposits in the project area has been mapped as approximately 8-15 m (25-50 ft). The topmost surficial unit has been mapped as greater than 6 m (20 ft) of loamy and sandy glacial deposits of the Glasford Formation, which overlie bedrock.

Soils. None of the soils along the project ROW have been classified as containing more than 33% hydric components or as non-prime farmland soils by the NRCS.

Coal mining. Illinois Coal Mine Maps of Perry County and ISGS Online Coal Maps of the Pinckneyville quadrangle indicate that coal mining has taken place in the project area. These maps indicate that the nearest former mine is located southeast of the project limits. This mine was operated by the John H. Schulze Company (Schulze Mine) from pre-1881 to 1889. This mine worked the Herrin coal seam by an unspecified method. Depth of the coal ranged from

approximately 11 to 22 m (35 to 72 ft). The production shaft for this mine is located approximately 0.19 km (0.12 mi) southeast of the nearest project limits. The project east of Locust Street is undermined by an unspecified method, and therefore may be subject to subsidence.

HYDROGEOLOGY

Due to project type or IDOT internal procedure, the sections on surficial public water supplies, groundwater recharge, groundwater protection areas, potential for contamination of shallow aquifers, and well log information are not included in this report.

Drainage direction. Surficial drainage in the project area is generally toward the north, in the direction of an unnamed tributary to the Beaucoup Creek. However, since the project area is urbanized and storm drains and sewers are present, most surficial runoff will be controlled by the storm sewer system; such systems typically are designed to follow natural drainage patterns.

Neither the near-surface nor the shallow unconfined groundwater flow direction was specifically determined for this project, but they generally mimic local topography.

NATURAL FEATURES AND HAZARDS

Seismic risk. According to the U.S. Geological Survey, the project is located in an area where the peak horizontal ground accelerations on bedrock (expressed as a percentage of the gravitational acceleration, g) that have a 2% probability of being exceeded in 50 years are between 20% and 80% g. These accelerations are from the USGS 2014 national seismic hazard maps that incorporate the earthquake magnitudes and rates of return from historical events and expected maximum magnitudes from all known fault zones and background events for the general geologic setting. These accelerations on bedrock may be modified by the soils and be greater on the ground surface.

No other observed or known natural hazards were identified for this project.

PROJECT SITES

Project sites will be described from north to south along the project route and from west to east along the west-east oriented roads below. Attachment 1 contains a project location map. Attachment 2 contains maps of all sites discussed in this report. Attachments 3 through 6 contain site-specific maps for selected sites on this project. The versions of the OSFM's UST database, IEPA's LUST database, IEPA’s Bureau of Land database, and USEPA's SEMS database utilized for this report were all dated October 11, 2018. OSFM files were received on October 3, 2018. IEPA files were received on October 10, 2018. No USEPA files were reviewed for this project. Fieldwork for this project was conducted on September 20, 2018.

This project intersects previous ISGS PESAs as follows:

ISGS #	Date submitted to IDOT	Intersects
1309/A	May 20, 2002	Along entire project
2679	November 9, 2012	At the southeast corner of Main Street and Laurel Street
3299	October 10, 2016	At the intersections of Main Street with Jackson Street and Water Street

Information from these earlier PESAs will be summarized in geographic order below.

Data gaps applicable to the entire project area

The following data gaps applicable to the entire project area were noted for this project. Data gaps specific to individual sites are discussed in the site writeups below.

- Sanborn map coverage varied in the project area. No Sanborn map coverage was found unless otherwise noted in the site discussion.

- On the 1873 through 1998 plat maps, this entire project was depicted incorporated within Pinckneyville. The dates of earliest development for all sites in the project are unknown.

- Aerial photographs provided information only for those specific times covered by the photographs, as noted in the Information Sources section. No records were available for intervening years, and other land uses could have occurred in these years.

Site 3530-1. Commercial building, 200 block of N. Walnut Street, Pinckneyville (northwest corner of Walnut Street and Laurel Street; Attachment 2, page 1). This site is occupied by a vacant commercial building and its outbuilding. The main building had the appearance of a former office building. One pole-mounted transformer was observed along the south side of the site. Three pole-mounted transformers were observed along the west side of the main building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 and 1927 through 1947 Sanborn maps and on the 1938 through 1971 aerial photographs, residences were depicted. On the 1988 and 1993 aerial photographs, a parking lot was present. On the 1998 through 2017 aerial photographs, the current buildings were present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, no listings were found. A 2013 Google street view image depicted the building's occupants as a business office and a medical clinic.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-2. Residence, 202 N. Walnut Street, Pinckneyville (northeast corner of Walnut Street and Laurel Street; Attachment 2, page 1). This site is occupied by a residence and its outbuildings. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 and 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current residence was present.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs and Sanborn maps indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-3. Mixed-use building, 207 N. Main Street, Pinckneyville (northwest quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a mixed-use building. Occupants included a roofing company and residential space (see address table for listings). All of the occupants shared the same address. A fenced area was present along the south and west sides of the building and could not be observed. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current main building was present. On the Sanborn maps, the building was labeled as containing a residence. In the 1978 city directory, no listings were found for this address. In the 1981 through 1990 city directories, individual names were listed. In the 1995 through 2018 city directories, the current roofing company and individual names were listed.

Potential hazards associated with roofing businesses include VOCs, SVOCs, and ACM.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- A fenced area was present along the south and west sides of the building and could not be observed.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-4. Residence, 205 N. Main Street, Pinckneyville (northwest quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a residence and its outbuilding. One pole-mounted transformer was observed on the northwest corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 through 1937 Sanborn maps, the site was vacant. On the 1947 Sanborn map and on the 1938 through 2017 aerial photographs, the current residence was present.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs and Sanborn maps indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformer; potential ACM and lead paint.

Site 3530-5. Mixed-use building, 203 N. Main Street, Pinckneyville (northwest quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a mixed-use building and its outbuilding. Occupants included an antique shop and residential space (see address table for listings). All of the occupants shared the same address. One pole-mounted transformer was observed on the northeast corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 Sanborn map, the site was vacant. On the 1937 and 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current main building was present. On the Sanborn maps, the building was labeled as containing a residence. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, individual names were listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformer; potential ACM and lead paint.

Site 3530-6. Stuart E. Morgenstern Attorney at Law, 1 W. Laurel Street, Pinckneyville (northwest corner of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a law office. The building had the appearance of a former residence. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, a residence different from the current building was present. On the 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a residence. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, various law offices were listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-7. Bigham, Tanner, & Foster Attorneys at Law, 206 N. Main Street, Pinckneyville (northeast quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a law office. Three pole-mounted transformers were observed at the northwest corner of the building. One pole-mounted transformer was observed on the southwest corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 through 1947 Sanborn maps and on the 1938 through 1952 aerial photographs, the site was vacant. On the aerial photographs, the site was vacant, with a grassy appearance. On the 1959 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2015 city directory, no listings were found. In the 2018 city directory, the current occupant was listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-8. Residence, 204 N. Main Street, Pinckneyville (northeast quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a residence and its outbuilding. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 through 1947 Sanborn maps and on the 1938 through 1965 aerial photographs, the site was vacant. On the aerial photographs the site was vacant, with a grassy appearance. On the 1971 through 2017 aerial photographs, the current residence was present.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-9. Kay's Massage & Wellness Center, 202 N. Main Street, Pinckneyville (northeast corner of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a massage therapy business and its outbuilding. The building had the appearance of a former residence. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a residence. In the 1978 city directory, no listings were found for this address. In the 1981 through 1995 city directories, individual names were listed. In the 2000-2001 through 2010 city directories, an insurance business was listed. In the 2015 and 2018 city directories, the current occupant was listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-10. Residence, 7 E. Laurel Street, Pinckneyville (northwest corner of Laurel Street and Locust Street; Attachment 2, page 1). This site is occupied by a residence and its outbuilding. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current residence was present.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs and Sanborn maps indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-11 (1309/A-l). Vacant lot, 101 N. Walnut Street, Pinckneyville (west side of Walnut Street between Jackson Street and Laurel Street; Attachment 2, page 1). This site is occupied by a vacant grassy lot. Attachment 2, page 1, uses a 2017 aerial photograph as the base map and depicts a partially demolished commercial building that is no longer present. Six pole-mounted transformers were observed along the west side of the site. Two pole-mounted transformers were observed on the southeast corner of the site.

During fieldwork for ISGS #1309/A in 2002, two diesel ASTs were observed on the west side of the site. During fieldwork for this project, no ASTs were present.

On the 1886 Sanborn map, residences were present. On the 1894 through 1910 Sanborn maps, three commercial buildings and a residence were present. On the Sanborn maps, the commercial buildings were labeled as containing an agricultural implement business, a livery, and an ice house, respectively. On the 1927 and 1937 Sanborn maps, two of the previous commercial buildings and the previous residence were present. On the Sanborn maps, the commercial buildings were labeled as containing a hospital and a livery. On the 1947 Sanborn map, one of the previous commercial buildings and the previous residence were present. On the Sanborn maps, the commercial building was labeled as containing a hospital. The 1938 through 1959 aerial photographs depicted the same buildings present on the 1947 Sanborn map. On the 1965 through 2016 aerial photographs, a building occupied most of the site. On the 2017 aerial photograph, the previous building was partially demolished. In the 1978 city directory, no listings were found for this address. In the 1981

through 2015 city directories, a hospital and various medical clinics were listed. In the 2018 city directory, two medical clinics were listed. During fieldwork for ISGS #1309/A in 2002, the site was occupied by a hospital.

Under the name “Pinckneyville Community Hospital”, the address “101 N Walnut St” appears on the active RCRA list (USEPA #ILR00132555). Under the name “Pinckneyville Community Hosp” and the address “101 N Walnut”, this site appears on the BOL list (IEPA #1450155011). According to IEPA files, in November 2004, Pinckneyville Hospital registered with USEPA and IEPA as a generator of 100-1,000 kg/mo (220-2,200 lb/mo) of medical wastes and wastes containing barium and mercury. In July 2010 and August 2013, during IEPA inspections, all wastes streams involved medical wastes only; no violations were observed in these inspections. No further information was present in IEPA files for IEPA #1450155011 regarding this site.

Under the name “Pinckneyville Comm Hospital” and the address “101 N Walnut St”, this site appears on the UST list (OSFM #7021010) with two registered USTs. According to OSFM files, in 1999, one diesel UST was removed and one 2,839-L (750-gal) heating-oil UST was abandoned. The heating-oil UST was abandoned due to its proximity to the building. See Attachment 3 for the location of the abandoned UST, which is labeled TK #1. No locational information regarding the former diesel UST was present in the file. The location of the former UST is unknown. No further information was present in OSFM files for OSFM #7021010 regarding this site.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The location of the former diesel UST is unknown.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following RECs were identified at this site: UST; former UST; former ASTs; evidence of former chemical use.

The following de minimis condition was identified at this site: Transformers.

Site 3530-12. Parking lot, 100 block of N. Walnut Street, Pinckneyville (east side of Walnut Street between Laurel Street and Jackson Street; Attachment 2, page 1). This site is occupied by a public parking lot. One pole-mounted transformer was observed on the southwest corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1937 Sanborn maps, residences were present. On the 1947 Sanborn map, the same buildings were present. On the Sanborn map, one of the previous residences was labeled as containing an unspecified store. The 1938 through 1971 aerial photographs depicted the same buildings present on the 1947 Sanborn map. On the 1988 through 1998 aerial photographs, one of the previous residences was present, a commercial building was present on the west side of the

site, and the rest of the site was occupied by a parking lot. The use of the commercial building present at the northeast corner of the site on the 1988 through 1998 aerial photographs is unknown. On 2005 through 2017 aerial photographs, a parking lot occupied the entire site. In the 1978 city directory, no listings were found for this address. In the 1981 through 1995 city directories, individual names were listed. In the 2000-2001 through 2018 city directories, no listings were found. During fieldwork for ISGS #1309/A in 2002, the site was occupied by a hospital.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The use of the commercial building present at the northeast corner of the site on the 1988 through 1998 aerial photographs is unknown.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

No RECs were identified at this site.

The following de minimis condition was identified at this site: Transformer.

Site 3530-13. Parker Heating & Cooling, 9 W. Jackson Street, Pinckneyville (northwest quadrant of Jackson Street and Main Street; Attachment 2, page 1). This site is occupied by a heating and cooling business. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1910 Sanborn maps, the current building and a building to its north were present. On the Sanborn maps, the current building was labeled as containing a jewelry store (1886-1910) and the north building was labeled as containing a shed (1886-1900) and as “fuel” (1910). On the 1927 and 1937 Sanborn maps, the current building and a north building different from the previous one were present. On both of these Sanborn maps, the current building was labeled as containing an unspecified store and the north building was not labeled. The 1938 aerial photograph depicted the same buildings present on the 1927 and 1937 Sanborn maps. The use of the north building present on the 1927 and 1937 Sanborn maps and on the 1938 aerial photograph is unknown. On the 1947 Sanborn map, the current building was present and the north end of the site was vacant. The Sanborn map labeled the building as containing an unspecified store. On the 1952 through 2017 aerial photographs, the site had its current configuration. In the 1978 through 1995 city directories, no listings were found for this address. In the 2000-2001 through 2018 city directories, various HVAC businesses were listed.

Potential hazards associated with HVAC businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers,

monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The use of the north building present on the 1927 and 1937 Sanborn maps and on the 1938 aerial photograph is unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-14. Commercial building, 113-115 N. Main Street, Pinckneyville (southwest corner of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a commercial building. Occupants included two title businesses (see address table for listings). Two pole-mounted transformers were observed at the southwest corner of the building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 aerial photograph, a residence was present. On the 1952 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 1990 city directories, one of the current occupants and various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 1995 through 2018 city directories, both of the current occupants were listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-15 (1309/A-12). Vacant building, 0-99 block of W. Jackson Street, Pinckneyville (northwest corner of Main Street and Jackson Street; Attachment 2, page 1). This site is occupied by a vacant commercial building. The building was undergoing construction during the fieldwork for this project. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 2016 aerial photographs, a building different from the current one occupied the site. On the Sanborn maps, the building was labeled as containing a stove and implement store, a hardware and implement store, an office, a meeting hall, and two occupants with illegible labels (1886); a warehouse, a tin shop, a hardware store, a bank, a dry goods store, and a meeting hall (1894 and 1900); a warehouse, a tin shop, a hardware store, a meeting hall, and two vacant units (1910); a warehouse, a knitting mill, and an unspecified store with a gasoline UST (1927); a warehouse, a post office, and three unspecified stores (1937); and a post office and two unspecified stores (1947). The nature of the two businesses with illegible labels on the 1886 Sanborn map is unknown. The UST depicted on the 1927 Sanborn map was located approximately 4 m (15 ft) north of the Jackson Street centerline and 29 m (95 ft) east of the Walnut Street centerline. The status of the UST depicted on the 1927 Sanborn map is unknown. In the 1978 city directory, no listings were found for this address. In the 1981 through 1990 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 1995 city directory, a motor cycle dealership and a furniture and appliance store were listed. In the 2000-2001 through 2015 city directories, a furniture and appliance store was listed. In the 2018 city directory, no listings were found. During fieldwork for ISGS #1309/A in 2002, the building was occupied by a furniture and appliance store.

In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In two boreholes completed at this site in 2002 for ISGS #1309/A, no VOCs were detected. See ISGS #1309/A for details.

Motorcycle dealerships commonly conduct vehicle repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with tin businesses include metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The nature of the two businesses with illegible labels on the 1886 Sanborn map is unknown.

- The status of the UST depicted on the 1927 Sanborn map is unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-16 (1309/A-13, 2679-1, 3299-1). Vacant lot, 0-99 block of E. Jackson Street, Pinckneyville (east side of Main Street between Jackson Street and Laurel Street; Attachment 2, page 1). This site is occupied by a vacant grassy lot. Three protruding gas mains were observed along the perimeter of the site. According to an interview with the Pinckneyville Fire Chief in 2012 for ISGS #2679, these gas mains were feeds to former buildings on the site. One gas main was observed at the center of the north side, one at the center of the west side, and one near the southeast corner. Two pole-mounted transformers were observed along the west side of the site. One pole-mounted transformer was observed on the northeast corner of the site. A pile of dirt was observed on the northeast corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1927 Sanborn maps, six buildings were present. On the Sanborn maps, the commercial buildings were labeled as containing a hardware store, a stove and implement store, a clothing store, a furniture store, a general merchandise store, two warehouses, and a residence (1886); a dry goods store, a grocer, a hardware store, an opera house, a warehouse, and a residence (1894); a hardware store, a furniture store, an opera house, a warehouse, and a residence (1900); a dry goods store, a general store, a stoves and tinware store, an opera house, two warehouses, and a residence (1910); and two meeting halls, a post office, two unspecified stores, a residence, and an auto repair shop with a gasoline UST (1927). This UST was located approximately 6 m (20 ft) north of the centerline of Jackson Street and 49 m (160 ft) west of the Locust Street centerline. The status of this UST is unknown. On the 1937 and 1947 Sanborn maps, the previous six buildings were present. On the Sanborn maps, the buildings were labeled as containing a County Relief Office (in the previous residence), a meeting hall, four unspecified stores, and a warehouse (1937 and 1947). The UST was no longer depicted. The 1938 aerial photograph depicted the same buildings that were present on the Sanborn maps. On the 1952 through 2010 aerial photographs, most of the site was occupied by commercial buildings, including the previous commercial buildings. On the 2011 and 2012 aerial photographs, two of the previous commercial buildings were present on the north end of the site. The rest of the site was vacant with a dirt- and grass-covered appearance. On the 2014 through 2017 aerial photographs, the site was vacant, with a grassy appearance. In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2015 and 2018 city directories, no listings were found. During fieldwork for ISGS #1309/A in 2002, an antique store occupied the southeast corner of the site. The rest of the site was not covered in ISGS #1309/A.

During fieldwork for ISGS #2679 and #3299 in 2012 and 2016, respectively, the site was occupied by a vacant grassy lot.

In 2012, during an interview with Mr. Jim Gielow, Pinckneyville Fire Chief, for ISGS #2679, Mr. Gielow stated that the former buildings at this site had been occupied by commercial offices and retail stores, and no indication of USTs had been observed during building demolition and removal. In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In one of the two boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected. See ISGS #1309/A for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

The following data gaps were identified at this site:

- The status of the UST depicted on the 1927 Sanborn map is unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

No visual evidence of stressed vegetation, pits or depressions, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Transformers.

Site 3530-17. Vacant lot, 0-99 block of E. Laurel Street, Pinckneyville (southeast quadrant of Main Street and Laurel Street; Attachment 2, page 1). This site is occupied by a vacant grass- and gravel-covered lot. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1900 Sanborn maps, one building was present on the north side of the site and the north portion of a second building was present on the south end of the site. On the Sanborn maps, the buildings were each labeled as containing a shed. On the 1910 and 1927 Sanborn maps, the north half of a different building was present and the rest of the site was vacant. On the Sanborn maps, the building was labeled as containing a warehouse (1910) and a private garage (1927). On the 1937 Sanborn map, a different building was present on the south end of the site and the rest of the site was vacant. On the Sanborn maps, the building was labeled as

containing a blacksmith shop. On the 1947 Sanborn map and on the 1938 aerial photograph, the site was vacant. On the 1952 through 2012 aerial photographs, a commercial building was present. On the 2014 through 2017 aerial photographs, the site was occupied by a vacant lot with a grass- and gravel-covered appearance. In the 1978 city directory, no listings were found for this address. In the 1981 city directory, a business office was listed. In the 1985 through 2018 city directories, no listings were found.

Potential hazards associated with blacksmiths include metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following REC was identified at this site: Potential former chemical use.

No de minimis conditions were identified at this site.

Site 3530-18. Commercial building, 9-11 E. Jackson Street, Pinckneyville (northwest quadrant of Jackson Street and Locust Street; Attachment 2, page 1). This site is occupied by a commercial building. Occupants included a real estate business and a hairstyling salon (see address table for listings). This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps, a building different from the current one was present. On the Sanborn maps, the building was labeled as containing a blacksmith and a wood shop (1886 and 1894); a blacksmith, a wood shop, and an agricultural implements store (1900); a blacksmith and a warehouse (1910); a blacksmith and a produce store (1927); and an unspecified store and a produce store (1937 and 1947). The 1938 through 1971 aerial photographs depicted the same building that were present on the Sanborn maps. On the 1988 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, the current occupants were listed.

Potential hazards associated with blacksmiths and woodworking businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-19 (1309/A-4). Vacant lot, 0-99 block of E. Jackson Street, Pinckneyville (northwest corner of Jackson Street and Locust Street; Attachment 2, page1). This site is occupied by a vacant grassy lot with a few trees. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 1965 aerial photographs, a residence was present. On the 1971 aerial photograph, the site was vacant, with a grassy appearance. On the 1988 through 2007 aerial photographs, a residential trailer was present. On the 2009 through 2017 aerial photographs, site was vacant, with a grassy appearance and a few trees. In the 1978 through 2018 city directories, no listings were found for this address. During fieldwork for ISGS #1309/A in 2002, the site was occupied by a residential trailer. In 2002, during interviews with local residents and Mr. Jerry Smith, Pinckneyville Fire Chief, for ISGS #1309/A, they recalled that a hatchery previously occupied this corner. In 2002, during an interview with a local resident, for ISGS #1309/A, the resident stated that a gasoline station previously occupied this site; however, this information could not be verified.

In three boreholes completed at this site in 2002 for ISGS #1309/A, no VOCs were detected. See ISGS #1309/A for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

No RECs or de minimis conditions were identified at this site.

Site 3530-20 (1309/A-5). Wittenauer Chiropractic, 103 E. Jackson Street, Pinckneyville (northeast corner of Jackson Street and Locust Street; Attachment 2, page 1). This site is occupied by a chiropractic clinic. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 1952 aerial photographs, a

building different from the current one was present. On the Sanborn maps, the building was labeled as containing a residence (1886 through 1910) and a produce store with a gasoline UST (1927 through 1947). This UST was located approximately 15 m (50 ft) north of the centerline of Jackson Street and 12 m (40 ft) east of the Locust Street centerline. The status of this UST is unknown. On the 1965 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 1995 city directories, a business office was listed. In the 2000-2001 through 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A in 2002, the current occupant was present.

In 2002, during an interview with Mr. Jerry Smith, Pinckneyville Fire Chief for ISGS #1309/A, Mr. Smith stated that this site was previously occupied by a gasoline station. In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In three boreholes completed at this site in 2002 for ISGS #1309/A, no VOCs were detected in any of these boreholes. See ISGS #1309/A for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The status of the UST depicted on the 1927 through 1947 Sanborn maps is unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-21. Medical Arts, 13 N. Walnut Street, Pinckneyville (southwest corner of Walnut Street and Jackson Street; Attachment 2, page 2). This site is occupied by a medical clinic. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1937 Sanborn maps, a residence and a commercial building, both different from the current building, were present. On the Sanborn maps, the commercial building was labeled as containing a meeting hall (1886); a post office (1894); a warehouse and a meeting hall (1900); an agricultural implements store (1910); and an unspecified store (1927 and 1937). On the 1947 Sanborn map, the previous residence was present and the rest of the site was vacant. The 1938 aerial photograph depicted the same buildings present on the 1927 and 1937 Sanborn maps. On the 1952 aerial photograph, the site was occupied by a vacant lot, with a grassy appearance. On the 1959 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, the current occupant was listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-22. The Twisted Vine, 10 N. Walnut Street, Pinckneyville (southeast corner of Jackson Street and Walnut Street; Attachment 2, page 2). This site is occupied by a wine bar. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps, a building different from the current one was present. On the Sanborn maps, the building was labeled as containing a grocer (1886); a dinnerware store (1894); a vacant space (1900); and a printing business (1910 through 1947). The 1938 through 1959 aerial photographs depicted the same building that was present on the Sanborn maps. On the 1965 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2015 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2018 city directory, no listings were found.

Potential hazards associated with printing businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-23. Senior Life Solutions, 15 N. Main Street, Pinckneyville (southeast quadrant of Jackson Street and Walnut Street; Attachment 2, page 2). This site is occupied by a medical clinic. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, a residence and a commercial building different from the current one were present. On the Sanborn maps, the commercial building was labeled as containing a business office. On the 1894 and 1900 Sanborn maps, the previous residence and the current building were present. On the Sanborn maps, the building was labeled as containing a shoe store (1894) and a dinnerware store and club room (1900). On the 1910 through 1947 Sanborn maps, the previous residence was no longer present and the area west of the current building was vacant. On the Sanborn maps, the building was labeled as containing a printing business (1910 through 1947). On the 1938 through 2017 aerial photographs, the site was in its current configuration. In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2005 through 2018 city directories, no listings were found. A 2016 Google street view image depicted the current occupant.

Potential hazards associated with printing businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-24. Southern Illinois Rehabilitation, 11 N. Main Street, Pinckneyville (west side of Main Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by a medical clinic. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, two buildings each different from the current one were present. On the Sanborn maps, the buildings were labeled as containing a restaurant, a confectionery, and a barber. On the 1894 through 1927 Sanborn maps, the east portion of the current building was present and the rest of the site was vacant. On the Sanborn maps, the building was labeled as containing two doctor's offices, a toy store, a confectionery, and a barber (1894 and 1900); a business office, a millinery, and two vacant commercial spaces (1910); and four unspecified stores. On the 1937 and 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the entire current building was present. On these Sanborn maps, the building was labeled as containing a paint store and three unspecified stores. In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2005 through 2018 city directories, no listings were found. A 2016 Google street view image depicted the current occupant.

Potential hazards associated with milliners and hatmaking operations and paint businesses include acids, VOCs, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-25. China Buffet, 7 N. Main Street, Pinckneyville (west side of Main Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by a restaurant. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1927 Sanborn maps, the east portion of the current building was present and the rest of the site was vacant. On the Sanborn maps, the building was labeled as containing a harness store (1886); a drug store (1894 and 1900); a clothing store (1910); and an unspecified store (1927). On the 1937 and 1947 Sanborn maps and on the 1938 through 2017 aerial

photographs, the entire current building was present. On these Sanborn maps, the building was labeled as containing an unspecified store. In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2005 through 2018 city directories, the current occupant was listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-26. Commercial building, 3-5 N. Main Street, Pinckneyville (west side of Main Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by a vacant commercial building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On these Sanborn maps, the building was labeled as containing a millinery, a confectionery, and an ice cream shop (1886); a printing business, a grocer, and a clothing store (1894); a grocer and a printing business with a gasoline engine (1900); a dry goods store, a shoe store, and a warehouse (1910); and two unspecified stores (1927 through 1947). In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2005 through 2018 city directories, no listings were found. A 2016 Google street view image depicted the building with a vacant appearance.

Potential hazards associated with milliners and hatmaking operations, printing businesses, and gasoline engines include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-27. Counseling Office of Lisa Wild, LCPC, 1 N. Main Street, Pinckneyville (north side of Water Street between Walnut Street and Main Street; Attachment 2, page 2). This site is occupied by a social services business. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1894 Sanborn map, a building different from the current one was present. On the Sanborn map, the building was labeled as containing an agricultural implement store. On the 1900 Sanborn map, the site was vacant. On the 1910 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On these Sanborn maps, the building was labeled as containing a bank. In the 1978 city directory, no listings were found for this address. In the 1981 through 2015 city directories, a law office was listed. In the 2018 city directory, no listings were found.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-28 (3329-3). Perry County Courthouse, 1 Public Square, Pinckneyville (along Main Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by the Perry County Courthouse. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 aerial photograph, most of the current building was present. On the Sanborn maps, the building was labeled as containing the Perry

County Courthouse. On the 1952 through 2017 aerial photographs, the entire current building was present. In the 1978 through 2018 city directories, no listings were found for this address.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-29 (1309/A-14, 3299-4). Shear Attitude Hair & Nail Salon, 16 N. Main Street, Pinckneyville (southwest quadrant of Jackson Street and Locust Street; Attachment 2, page 2). This site is occupied by a hair salon. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1894 Sanborn map, a building different from the current one was present. On the Sanborn map, the building was labeled as containing an agricultural implement store. On the 1900 through 1947 Sanborn maps, a building different from both the previous building and the current building was present. On the Sanborn maps, the building was labeled as containing a livery (1900); a blacksmith (1910); a garage with an UST (1927); and a tractor repair shop (1937 and 1947). The UST depicted on the 1927 Sanborn map was located approximately 13 m (45 ft) south of the centerline of Jackson Street and 43 m (140 ft) west of the Locust Street centerline. The status of this UST is unknown. The 1938 through 1965 aerial photographs depicted the same building that was present on the 1900 through 1947 Sanborn maps. On the 1971 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2015 and 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A in 2002, this site was occupied by a vacant commercial building. During fieldwork for ISGS #3299 in 2016, the current occupant was present.

In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In one of two boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected. See ISGS #1309/A for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with blacksmiths include metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The status of the UST depicted on the 1927 Sanborn map is unknown.

- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-30 (3299-5). Mixed-use building, 14 N. Main Street, Pinckneyville (east side of Main Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by a mixed-use building. Occupants included a vacant commercial unit and residential space with the same address (see address table for listings). This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a printing business (1886); an agricultural implement repair shop (1894); a business office and an agricultural implement paint shop (1900); a business office (1910); and an unspecified store (1927 through 1947). In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2015 city directory, an individual name was listed. In the 2018 city directory, no listings were found. During fieldwork for ISGS #3299 in 2016, the current building appeared vacant.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with printing and paint businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-31 (1309/A-6, 3299-6). Parking lot, 0-99 block of N. Main Street, Pinckneyville (northwest corner of Water Street and Locust Street; Attachment 2, page 2). This site is occupied by a municipal parking lot. During fieldwork for ISGS #1309/A in 2002, two apparent fill pipes were observed along the south edge of the site. During fieldwork for this project, these pipes were not present. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1910 Sanborn maps, four buildings were present. On the Sanborn maps, the buildings were labeled as containing an agricultural implement shed, a saloon, a billiard hall, a millinery, a harness store, and one business with an illegible label (1886); two harness stores, a shoe store, a dry goods store, a tin shop, residential space, and a confectionery (1894); two harness stores, a business office, a dry goods store, a shoe store, a saloon, a tailor, vacant commercial space, and residential space (1900); and two harness stores, a business office, a dry goods store, a millinery, vacant commercial space, and residential space (1910). The nature of the business with an illegible label on the 1886 Sanborn map is unknown.

On the 1927 through 1947 Sanborn maps, five buildings were present. On the 1927 Sanborn map, the buildings were labeled as containing a creamery, three unspecified stores, residential space, and a gasoline station with two gasoline USTs (1927). These two USTs were located in the same pit approximately 12 m (40 ft) north of the centerline of Water Street and 15 m (50 ft) west of the Locust Street centerline. The status of these USTs is unknown. On the 1937 Sanborn map, the buildings were labeled as containing a restaurant, three unspecified stores, and the previous gasoline station with three gasoline USTs in different locations from the previous USTs. One UST was located approximately 15 m (50 ft) north of the centerline of Water Street and 33 m (110 ft) west of the Locust Street centerline. A second UST was located approximately 9 m (30 ft) north of the centerline of Water Street and 27 m (90 ft) west of the Locust Street centerline. A third UST was located approximately 17 m (55 ft) north of the centerline of Water Street and 21 m (70 ft) west of the Locust Street centerline. The status of these USTs is unknown. On the 1947 Sanborn map, the buildings were labeled as containing a movie theater, a restaurant, two unspecified stores, and the previous gasoline station with the previous three USTs.

The 1938 through 1965 aerial photographs depicted the same buildings that were present on the 1927 through 1947 Sanborn maps, including the gasoline station. On the 1971 through 1998 aerial photographs, the previous buildings north of the former gasoline station were present and a parking lot occupied the location of the former gasoline station. On the 2005 through 2017 aerial photographs, the entire site was occupied by a parking lot. In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, various commercial businesses were listed. No potential hazards were identified in association with any of the occupants. In the 2005 through 2018 city directories, no listings were found. During fieldwork for ISGS #3299 in 2016, the current building appeared vacant. In 2002, during an interview with Mr. Jerry Smith, Pinckneyville Fire Chief for ISGS #1309/A, Mr. Smith stated that the former gasoline station closed in 1978.

In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In four of five boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected. See ISGS #1309/A for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with tin shops, milliners and hatmaking include acids, VOCs, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The nature of the business with an illegible label on the 1886 Sanborn map is unknown.
- The status of the USTs depicted on the 1927 through 1947 Sanborn maps is unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

No de minimis conditions were identified at this site.

Site 3530-32. Southern Illinois Eye Care, 15 N. Locust Street, Pinckneyville (southwest corner of Jackson Street and Locust Street; Attachment 2, page 2). This site is occupied by

an eye doctor's office. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1894 Sanborn map, a building different from the current one was present. On the Sanborn map, the building was labeled as containing a machine shop. On the 1900 through 1947 Sanborn maps and the 1938 through 1965 aerial photographs, the previous building and a second building different from the current one were present. On the Sanborn maps, the buildings were labeled as containing a machine shop and a livery (1900); a machine shop and a warehouse (1910); a parking garage and a warehouse (1927); and a blacksmith and a tractor repair shop (1937 and 1947). On the 1971 through 2017 aerial photographs, the current building was present. In the 1978 and 1981 city directories, no listings were found for this address. In the 1990 through 2018 city directories, the current occupant was listed.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with blacksmiths and machining include VOCs, acids, bases, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-33 (1309/A-7, 3299-7). Murphy-Wall State Bank, 105 E. Water Street, Pinckneyville (east side of Locust Street between Jackson Street and Water Street; Attachment 2, page 2). This site is occupied by a bank. A fenced area was present at the northwest corner of the building and could not be observed. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1900 Sanborn maps, a residence was present. On the 1910 Sanborn map, the previous building and a building different from the current one were present. On the Sanborn

map, the buildings were labeled as containing a residence and a horse shed. On the 1927 and 1937 Sanborn maps, the two previous buildings and a third building different from the current one were present. On the Sanborn maps the buildings were labeled as containing two residences and a feed warehouse. On the 1947 Sanborn map, the three previous buildings and a fourth building different from the current one were present. On the Sanborn maps, the buildings were labeled as containing residences, a feed store, and an agricultural implement store. The 1938 aerial photograph depicted the same buildings that were present on the 1947 Sanborn map. On the 1952 through 1971 aerial photographs, the two previous residences, one of the previous commercial buildings, and a gasoline station were present. The gasoline station was located on the southwest corner of the site and a dispenser island was located south of the station building. On the 1988 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 city directory, a gasoline station was listed. In the 1985 through 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A and #3299 in 2002 and 2016, respectively, the current occupant was present.

In 2016, during an interview for ISGS #3299, a local resident stated that the site was previously occupied by a gasoline station and an auto repair shop located on the southwest corner and southeast corner of the site, respectively.

In three boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected in all three boreholes. See ISGS #1309/A for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- A fenced area was present at the northwest corner of the building and could not be observed.

- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-34. Commercial buildings, 12-14 W. Water Street, Pinckneyville (southeast quadrant of Water Street and Walnut Street; Attachment 2, page 3). This site is occupied by a mixed-use building and a storage building to its south. Occupants included a law office, residential space, and vacant commercial space (see address table for listings).

On the 1886 through 1927 Sanborn maps, the current north building was present and the rest of the site was vacant. On the Sanborn maps, the building was labeled as containing a hotel (1886); a hotel, a business office, and a saloon (1894 and 1900); a hotel, a business office, and two vacant commercial spaces (1910); and two unspecified stores, a warehouse, and residential space (1927). On the 1937 and 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current buildings were present. On both Sanborn maps, the north building was listed as containing two unspecified stores and a clothes pressing room. On both Sanborn maps, the south building was listed as containing a dry cleaning operation. A “solvent tank” label was located along the south side of the south building; however, no tank was depicted. These Sanborn maps did not specify the nature of the solvent tank and it is unknown if it was an UST or an AST. The status and exact location of the solvent tank on these Sanborn maps is unknown. In the 1978 city directory, no listings were found for this address. In the 1981 through 1995 city directories, a dry cleaning business and various retail and service businesses were listed; no potential hazards were identified in association with any of the other listings. In the 2000-2001 through 2010 city directories, a printing business, individual names and various service businesses were listed; no potential hazards were identified in association with any of the other listings. In the 2015 and 2018 city directories, the current occupant was listed.

Under the name “Hammacks Cleaner” and the address “14 W Water”, this site appears on the inactive RCRA list (USEPA #ILD981784440). Under the name “Hammack Cleaners” and the address “14 W Water”, this site appears on the BOL list (IEPA #1450155006). According to IEPA files, in September 1986, Hammack Cleaners registered with USEPA and IEPA as a generator of less than 1,000 kg/mo (2,200 lb/mo) of wastes containing spent halogenated solvents. In March 1997, during an IEPA Compliance Assistance inspection, the business was closed and no violations were present. The inspector observed a note on the door that indicated the dry cleaning business closed in December 1996. No further information was available in IEPA files for IEPA #1450155006 regarding this site.

Potential hazards associated with dry cleaning and printing businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The 1937 and 1947 Sanborn maps did not specify the nature of the solvent tank and it is unknown if it was an UST or an AST.

- The status and exact location of the solvent tank on the 1937 and 1947 Sanborn maps is

unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST; potential AST; evidence of former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-35 (1309/A-15, 3299-A). McDonald's, 10 W. Water Street, Pinckneyville (west side of Main Street between Water Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a restaurant. The building was undergoing renovations during the fieldwork for this project. Three pole-mounted transformers were observed at the southwest corner of the building. Two pole-mounted transformers were observed on the south side of the site. Monitoring wells MW-1 and MW-4, and recovery wells RW-2 through RW-4 on Attachment 6 were present. Monitoring wells MW-2 and MW-3 on Attachment 5 were not present. Due to the presence of construction equipment trailers located on the south half of the site, the status of recovery well RW-1 on Attachment 6 is unknown.

On the 1886 through 1910 Sanborn maps, six buildings all different from the current one were present. On the Sanborn maps, the buildings were labeled as containing a bakery, a confectionery, a warehouse, a saloon, a meeting hall, and four businesses with illegible labels (1886); two business offices, an ice house, a grocer, a shoe store, and four unspecified stores (1894); a "Chinese laundry", a clothing store, a dry goods store, a drug store, two grocers, a shoe store, and a warehouse (1900); and a "Chinese laundry", a clothing store, a drug store, two general stores, a grocer, a dinnerware store, and a warehouse (1910). It is unknown if this laundry conducted dry cleaning.

On the 1927 through 1947 Sanborn maps, the previous buildings and two additional buildings different from the current one were present. On the Sanborn maps the buildings were labeled as containing five unspecified stores, a meeting hall, a warehouse, and an auto repair shop with two gasoline USTs (1927). One UST was located along Main Street approximately 6 m (20 ft) north of the centerline of Mulberry Street and 8 m (25 ft) west of the Main Street centerline. A second UST was located along Mulberry Street approximately 11 m (35 ft) north of the centerline of Mulberry Street and 11 m (35 ft) west of the Main Street centerline. The status of these USTs is unknown. An ammonia AST was located nearly centered along the west side of the site within one of the unspecified stores. On the 1937 Sanborn map, the buildings were labeled as containing a meeting hall, a restaurant, five unspecified stores, the previous ammonia AST, and the previous auto repair shop with the previous UST along Mulberry Street. The previous UST along Main Street was no longer depicted. On the 1947 Sanborn map, the buildings were labeled as containing a meeting hall, six unspecified stores, the previous ammonia AST, and the previous auto repair shop with the previous UST along Mulberry Street.

The 1938 through 1965 aerial photographs depicted the same buildings that were present on the 1927 through 1947 Sanborn maps. On the 1971 through and 1988 aerial photographs, a gasoline

station was centered on the west side of site. On the 1993 aerial photograph, the site was vacant, with a graveled or paved appearance. On the 1998 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 1990 city directories, a gasoline station was listed. In the 1995 city directory, no listings were found. In the 2000-2001 through 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A and #3299 in 2002 and 2016, respectively, the current occupant was present.

Under the name “Amoco, Braun” and the address “10 W Water St”, this site appears on the BOL list (IEPA #1450155009). Under the name “Braun Amoco” and the address “10 West Water St.”, this site appears on the LUST list (IEMA #912735). Under the name “Braun Standard Ser” and the address “10 W Water St”, this site appears on the UST list (OSFM #7010569) with four registered USTs. According to OSFM files, three gasoline USTs and one waste-oil UST were removed in 1992 (see below for a discussion of these USTs). No further information was present in OSFM files regarding OSFM #7010569.

According to IEPA files, in September 1991, during pre-removal activities completed by ARDL, Inc. (ARDL), soil borings were completed around the area of the waste-oil UST and gasoline USTs prior to removal (see Attachment 4 for the locations of the USTs). Soil samples were taken and analyzed for BTEX, PNAs, and metals. Some of these soil samples exceeded cleanup objectives in effect at that time for BTEX compounds and PNAs, and IEMA #912735 was issued. In January 1992, ARDL oversaw the removal of these USTs. From 1992-1993, impacted soil was removed. During the most recent soil sampling In July 1993, samples were analyzed for BTEX and PNAs. Some soil samples exceeded cleanup objectives for BTEX compounds in effect at that time in the area beneath the former canopy and in the area beneath the former waste-oil UST (see Attachment 4 for these areas). Some soil samples exceeded cleanup objectives for PNAs in effect at that time in the area beneath the former used-oil UST (see Attachment 4 for the area of the former waste-oil UST).

In August 1993, ARDL completed four monitoring wells (MW-1 through MW-4 on Attachment 5). In 1994, site consultants Massac Environmental Technologies, Inc. (MET) took over work at this site and oversaw the groundwater investigation. The groundwater investigation included installation of a pump-and-treat system, removal of impacted groundwater, installation of four recovery wells, and quarterly groundwater monitoring. From February 1994 through June 1998, both the quarterly groundwater monitoring and the pump-and-treat system results were reported to the IEPA. However, no sampling of groundwater from monitoring wells MW-2 and MW-3 was reported during this time. During the most recent groundwater sampling in June 1998, samples were analyzed for BTEX and PNAs. Some BTEX compounds and/or PNAs were detected above Class I GROs at MW-1,RW-1, RW-2, and RW-4. See Attachment 6 for the locations of these monitoring wells and recovery wells. During fieldwork for this project monitoring wells MW-1 and MW-4, and recovery wells RW-2 through RW-4 on Attachment 6 were present. Monitoring wells MW-2 and MW-3 on Attachment 5 were not present. Due to the presence of construction equipment trailers located centered on the south half of the site, the status of recovery well RW-1 on Attachment 6 is unknown. The groundwater flow direction was determined to be to the northwest, and the depth to groundwater ranged from 4.38 to 5.42 m (14.37 to 17.80 ft). In a January 1999 report, MET used Tier 2 modeling to determine the extent of impacted groundwater; the impacted groundwater extended into the alley to the west of the site. No maps of impacted soil or groundwater were present in IEPA files. No further information was available in IEPA files regarding IEMA #912735 or IEPA #1450155009.

In five of six boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected. See ISGS #1309/A for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with dry cleaning businesses include VOCs.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- Due to the presence of construction equipment trailers located on the south half of the site, the status of recovery well RW-1 on Attachment 6 is unknown.
- The nature of the four businesses with illegible labels on the 1886 Sanborn map is unknown.
- It is unknown if the laundry formerly present at this site conducted dry cleaning.
- The status of the USTs on the Sanborn maps is unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Former USTs with a documented release; potential UST(s); former AST; monitoring wells; potential monitoring well; former monitoring wells; potential former chemical use; impacted soil and groundwater; VOCs detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-36. Commercial building, 2 E. Water Street, Pinckneyville (east side of Main Street between Water Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a vacant commercial building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, three buildings all different from the current one were present. On the Sanborn map, the buildings were labeled as containing a general store, a warehouse, a business

office, and one business with an illegible label. The nature of the business with the illegible label is unknown. On the 1894 Sanborn map, one of the previous buildings was present. On the Sanborn map, the building was labeled as containing a general store. On the 1900 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a clothing store and a meeting hall (1900 and 1910) and a meeting hall and an unspecified store (1927 through 1947). In the 1978 city directory, no listings were found for this address. In the 1981 through 2005 city directories, various restaurants were listed. In the 2010 through 2018 city directories, no listings were found.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The nature of the business with an illegible label on the 1886 Sanborn map is unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-37 (1309/A-16, 3299-B). Vacant lot, 0-100 block of S. Main Street, Pinckneyville (northeast quadrant of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a vacant graveled lot. During fieldwork for ISGS #1309/A in 2002, oil stains were observed inside and outside the vacant commercial building that was present at that time. During fieldwork for this project, no staining was present.

On the 1886 through 1947 Sanborn maps and on the 1938 through 1998 aerial photographs, two buildings were present. On the Sanborn maps, the buildings were labeled as containing a furniture store, a drug store, and a doctor's office (1886); a carpenter shop and an unspecified store (1894); a photography business, a drug store, and a warehouse (1900); a sheet metal works and vacant commercial space (1910); two unspecified stores (1927); and a tire service and an auto repair garage (1937 and 1947). On the 2005 through 2017 aerial photographs, the site was vacant, with a paved or graveled appearance. In the 1978 city directory, no listings were found for this address. In the 1981 through 2000-2001 city directories, a tire service and auto repair business was listed. In the 2005 through 2018 city directories, no listings were found. During fieldwork for ISGS #1309/A in 2002, the site was occupied by a vacant building.

Under the name "Ranmar Standard Tire Inc", the address "12 S Main St" appears on the BOL list (IEPA #1450155015). According to IEPA files, this listing pertains to this site. In July 1992, Ranmar Tires registered with the IEPA as a generator of used tires. In July 1992, during an IEPA tire

inspection, no violations were observed. No further information was present in IEPA files for IEPA #1450155015 regarding this site.

In two boreholes completed at this site in 2002 for ISGS #1309/A, no VOCs were detected in either borehole. See ISGS #1309/A for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with carpentry, metalworking, and photography businesses include acids, bases, VOCs, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The status and locations of any undocumented UST(s) at this site are unknown.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

No de minimis conditions were identified at this site.

Site 3530-38. Mixed-use building, 14-16 S. Main Street, Pinckneyville (northeast corner of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a vacant mixed-use building. The building consisted of commercial space on the first floor and residential space on the second floor. One pole-mounted transformer was observed on the southeast corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1894 Sanborn maps, a building different from the current one was present. On the Sanborn maps, the building was labeled as containing an opera house and a business office (1886) and a business office and residential space (1894). On the 1900 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a meeting hall, a saloon, and vacant commercial space (1900); a grocer, a warehouse, and vacant commercial space (1910); and an unspecified store and a warehouse (1927 through 1947). In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, individual names and various service businesses were listed; no potential hazards were identified in association with any of the other listings. In the 2015 and 2018 city directories, no listings were found.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers,

monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformer; potential ACM and lead paint.

Site 3530-39 (3299-8). Vacant lot, 0-100 block of E. Water Street, Pinckneyville (southwest quadrant of Water Street and Locust Street; Attachment 2, page 3). This site is occupied by a vacant grass- and gravel-covered lot. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1910 Sanborn maps, two buildings were present. On the Sanborn maps, the buildings were labeled as containing a saloon, a residence, and a business with an illegible label (1886); a saloon, a residence, and a tailor (1894); a saloon, residential space, and vacant commercial space (1900); and a saloon, residential space, and a barber (1910). The nature of the business with an illegible label on the 1886 Sanborn map is unknown. On the 1927 through 1947 Sanborn maps and on the 1938 through 2015 aerial photographs, two buildings different from the previous ones were present. On the Sanborn maps, the buildings were labeled as containing a hotel and an unspecified store (1927) and a hotel, a restaurant, and an unspecified store (1937 and 1947). On the 2016 and 2017 aerial photographs the site was vacant, with a grass- and gravel-covered appearance. In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, individual names and various retail and service businesses were listed, including a printing business in 1990. No potential hazards were identified in association with any of the other former occupants. In the 2015 and 2018 city directories, no listings were found. During fieldwork for ISGS #3299 in 2016, the site was occupied by a vacant lot.

Potential hazards associated with printing businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The nature of the business with an illegible label on the 1886 Sanborn map is unknown.

Because there are no buildings present and no evidence of fill or demolition debris was observed,

asbestos-containing materials and lead paint are unlikely to be present at this site.

The following REC was identified at this site: Potential former chemical use.

No de minimis conditions were identified at this site.

Site 3530-40 (1309/A-8, 3299-9). Perry County building, 12 E. Water Street, Pinckneyville (southwest corner of Water Street and Locust Street; Attachment 2, page 3). This site is occupied by the Perry County Jail and Perry County Sheriff's Office, both with the same address. Three pole-mounted transformers were observed along the south side of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, two buildings different from the current one were present. On the Sanborn map, the buildings were labeled as containing a livery and vacant commercial space, respectively. On the 1894 Sanborn map, one of the previous buildings was present; it was labeled as containing a livery. On the 1900 and 1910 Sanborn maps, the previous building and two additional buildings different from the current one were present. On the Sanborn map, the buildings were labeled as containing a livery, a blacksmith, and a tin shop (1900) and a blacksmith shop, a carpenter shop, a hardware store, and a warehouse (1910). On the 1927 Sanborn map, one of the previous buildings was present. On the Sanborn map, the building was labeled as containing a shed and a private garage. On the 1937 Sanborn map, three buildings different from the previous buildings and different from the current one were present. On the Sanborn map, the buildings were labeled as containing a residence, an auto dealership, and a gasoline station with two gasoline USTs. One UST was located approximately 15 m (50 ft) south of the centerline of Water Street and 15 m (50 ft) west of the Main Street centerline. A second UST was located approximately 15 m (50 ft) south of the centerline of Water Street and 23 m (75 ft) west of the Locust Street centerline. On the 1947 Sanborn map, the previous auto dealership building had expanded to the south and the previous gasoline station was present with no USTs depicted. The 1938 and 1952 aerial photographs depicted the same buildings present on the 1947 Sanborn map. On the 1959 through 1971 aerial photographs, the previous auto dealership was present. On the 1988 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 and 1985 city directories, an auto dealership was listed. In the 1990 through 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A and #3299 in 2002 and 2016, the current occupant was present.

In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In three boreholes completed at this site in 2002 for ISGS #1309/A, VOCs were detected in all three boreholes. See ISGS #1309/A for details.

Historic gas stations and vehicle dealerships commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with blacksmiths, carpentry, tin shops, and metalworking include VOCs, acids, bases, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gaps were identified at this site:

- The use of the south building present on the 1886 and 1894 Sanborn maps is unknown.
- The status of the USTs located on the 1927 Sanborn map are unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-41 (3299-10). Residence, 104 E. Water Street, Pinckneyville (southeast corner of Water Street and Locust Street; Attachment 2, page 3). This site is occupied by a residence and its garage. The garage had the appearance of a former commercial building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, a residence different from the current one was present. On the 1894 through 1910 Sanborn maps, the previous building and a building different from the current one were present. On the Sanborn maps, the buildings were labeled as containing a residence and a livery. On the 1927 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current buildings were present. On the Sanborn maps, the buildings were labeled as containing a residence and a an auto repair shop (1927) and a residence and auto storage (1937 and 1947). In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, individual names were listed. In the 2015 and 2018 city directories, no listings were found. During fieldwork for ISGS #3299 in 2016, the current occupant was present.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or

noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

- The status and locations of any undocumented UST(s) at this site are unknown.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-42. Parking lot, 0-99 block of S. Locust Street, Pinckneyville (southeast quadrant of Water Street and Locust Street; Attachment 2, page 3). This site is occupied by a parking lot for the Perry County Sheriff's Office (Site 3530-40). A radio tower and its associated building were located on the southeastern corner of the site, surrounded by a fence. An AST of unknown contents was observed beneath a generator located northwest of the tower. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1910 Sanborn maps, a residence was present. On the 1927 through 1947 Sanborn maps and on the 1938 aerial photograph, the previous residence and a commercial building were present. On the Sanborn maps, the commercial building was labeled as containing an ice house. On the 1952 through 1971 aerial photographs, the previous residence was present and the rest of the site was vacant, with a grassy appearance. On the 1988 through 2017 aerial photographs, a parking lot and radio tower were present. In the 1978 through 2018 city directories, no listings were found for this address range.

The following data gap was identified at this site:

- The contents of the AST are unknown.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: AST.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-43. Commercial building, 202 E. Water Street, Pinckneyville (southeast corner of Water Street and Gordon Street; Attachment 2, page 3). This site is occupied by a vacant commercial building. This site did not appear on any of the regulatory lists checked for this project.

On the 1927 through 1947 Sanborn maps and on the 1938 and 1952 aerial photographs, a building different from the current one was present. On the Sanborn maps, the building was labeled as containing a blacksmith. On the 1959 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2005 city directories, a HVAC business was listed. In the 2010 through 2018 city directories, no listings were found.

Potential hazards associated with blacksmiths and HVAC businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-44. First National Insurance, 101 S. Main Street, Pinckneyville (southwest corner of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by an insurance business. Three pole-mounted transformers were observed at the southwest corner of the building. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1947 Sanborn maps and on the 1938 through 1965 aerial photographs, a residence was present. On the 1971 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 through 2010 city directories, various banks were listed. In the 2015 and 2018 city directories, the current occupant was listed.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors

was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 3530-45. Back Pain Clinic, 105 S. Main Street, Pinckneyville (southwest quadrant of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a medical clinic. The building had the appearance of a former residence. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, the site was vacant. On the 1894 through 1947 Sanborn maps and on the 1938 through 2017 aerial photographs, the current building was present. On the Sanborn maps, the building was labeled as containing a residence. In the 1978 city directory, no listings were found for this address. In the 1981 and 1985 city directories, individual names were listed. In the 1990 city directory, no listings were found. In the 1995 city directory, a printing business was listed. In the 2000-2001 through 2018 city directories, the current occupant was listed.

Potential hazards associated with printing businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-46. Jalisco Mexican Restaurant, 201 S. Main Street, Pinckneyville (southwest

quadrant of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a restaurant and its outbuilding. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, two buildings different from the current one were present. On the Sanborn map, the buildings were labeled as containing a church and a carpentry shop. On the 1894 and 1900 Sanborn maps, one of the previous buildings and two residences were present. On the Sanborn maps, the commercial building was labeled as containing a church. On the 1910 through 1947 Sanborn maps and on the 1938 through 1971 aerial photographs, two residences were present. On the 1988 through 2017 aerial photographs, the current building was present. In the 1978 city directory, no listings were found for this address. In the 1981 and 1985 city directories, individual names were listed. In the 1990 through 2018 city directories, various restaurants were listed.

Potential hazards associated with carpentry and woodworking businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following REC was identified at this site: Potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 3530-47 (1309/A-17). Dairy Queen, 104 S. Main Street, Pinckneyville (southeast corner of Main Street and Mulberry Street; Attachment 2, page 3). This site is occupied by a restaurant. A storage building was located east of the restaurant. Three pole-mounted transformers were observed on the southwest corner of the site. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 Sanborn map, a building different from the current ones was present. On the Sanborn map, the building was labeled as containing a general store and residential space. On the 1894 through 1947 Sanborn maps, the previous building was expanded to the east and a residence was also present. On the Sanborn maps, the commercial building was labeled as containing a grocer, a warehouse, and residential space (1894); a general store, a warehouse, and residential space (1900); an agricultural implements store, a warehouse, and residential space (1910); and a produce store, a feed store, and residential space (1927-1947). The 1938 aerial photograph depicted the

same buildings that were present on the 1894 through 1947 Sanborn maps. On the 1952 aerial photograph, the previous commercial building and the current storage building were present. On the 1959 through 1971 aerial photographs, the previous buildings and a commercial building on the west side of the site different from the current ones were present. On the 1988 through 1998 aerial photographs, the west building, the current storage building, and the north portion of the current parking lot were present. On the 2005 through 2017 aerial photographs, both of the current buildings were present and the site had its current configuration. In the 1978 city directory, no listings were found for this address. In the 1981 through 2018 city directories, the current occupant was listed. During fieldwork for ISGS #1309/A in 2002, the current occupant was present. In 2002, during an interview for ISGS #1309/A, local residents stated that the site was previously occupied by a gasoline station that closed in the 1930s or 1940s.

In 2016, during interviews with employees of the Pinckneyville Fire Department and the City of Pinckneyville for ISGS #3299, the employees stated, respectively, that the Pinckneyville Fire Department and the City of Pinckneyville did not keep UST records.

In three boreholes completed at this site in 2002 for ISGS #1309/A, no VOCs were detected. See ISGS #1309/A for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, chemical containers, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during a site inspection by ISGS on September 20, 2018.

The following data gap was identified at this site:

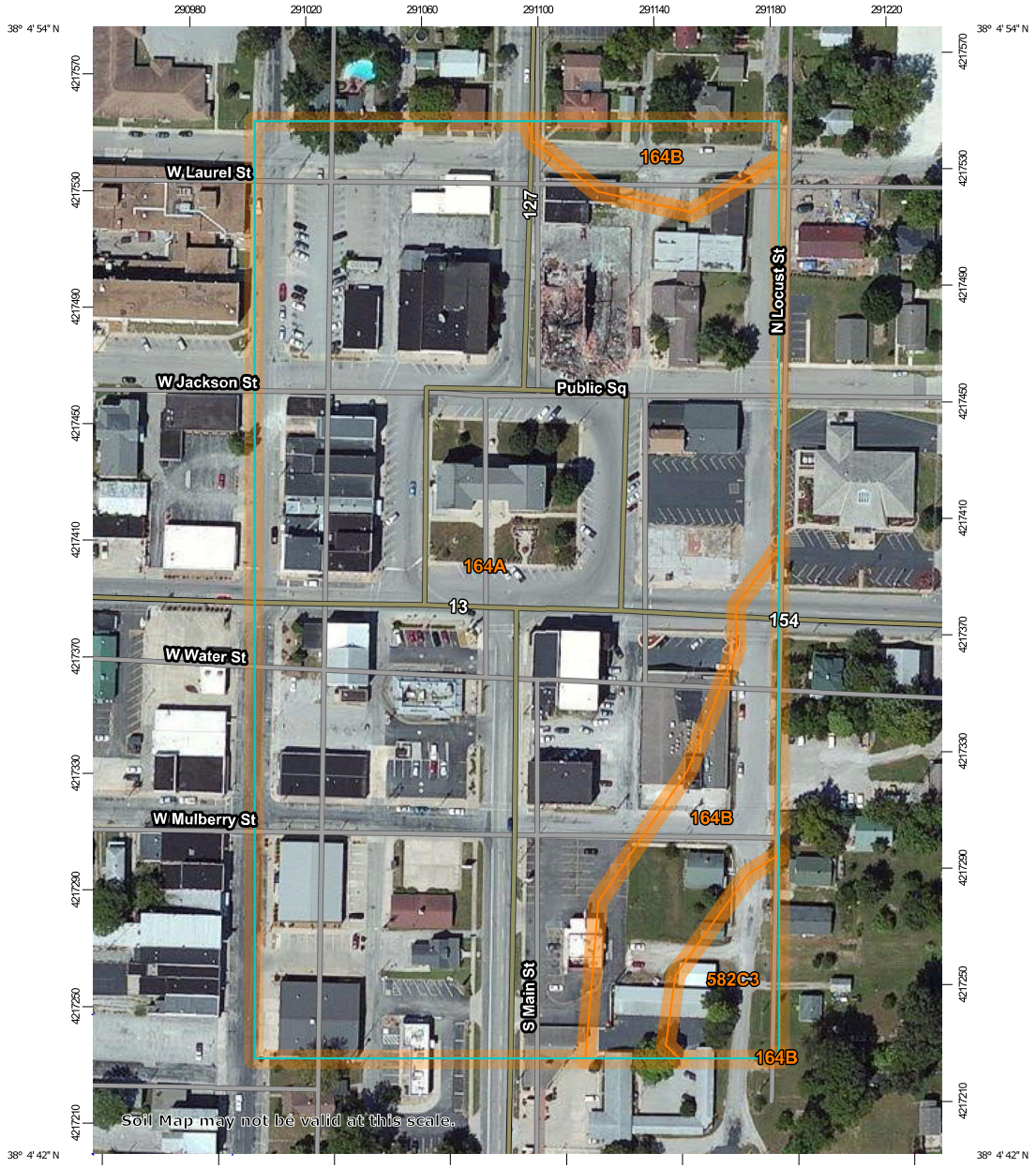
- The status and locations of any undocumented UST(s) at this site are unknown.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

The following RECs were identified at this site: Potential UST(s); potential former chemical use.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Soil Map—Perry County, Illinois
(Soil Map FAP 42/FAP 841 Project Area)



Map Scale: 1:1,880 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 25 50 100 150

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Perry County, Illinois
Survey Area Data: Version 17, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 28, 2011—Oct 5, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
164A	Stoy silt loam, 0 to 2 percent slopes	12.2	84.8%
164B	Stoy silt loam, 2 to 5 percent slopes	1.7	11.9%
582C3	Homen silty clay loam, 5 to 10 percent slopes, severely eroded	0.5	3.3%
Totals for Area of Interest		**14.4**	**100.0%**

LOCATION HOMEN IL

Established Series
Rev. RAL-DRW-BCF
05/2009

HOMEN SERIES

The Homen series consists of very deep, moderately well drained soils formed in Peoria loess, Peoria and Roxana loess, or in loess and the underlying mix of Roxana loess and glacial drift on till plains. Slopes range from 2 to 18 percent. Mean annual precipitation is about 991 mm (39 inches), and mean annual temperature is about 13 degrees C (55 degrees F).

TAXONOMIC CLASS: Fine-silty, mixed, superactive, mesic Fragic Oxyaquic Hapludalfs

TYPICAL PEDON: Homen silt loam on a convex-linear southwest facing gently sloping 2 percent slope, in a cultivated field at an elevation of about 171 meters (560 feet) above mean sea level. (Colors are for moist soil unless otherwise stated.)

Ap1--0 to 9 cm (0 to 4 inches); brown (10YR 4/3) silt loam, crushed; moderate medium granular structure; friable; many fine and very fine roots throughout; few fine distinct spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 15 percent clay; slightly acid; abrupt smooth boundary.

Ap2--9 to 24 cm (4 to 9 inches); dark yellowish brown (10YR 4/4) silt loam, crushed; moderate medium granular structure; friable; many fine and very fine roots throughout; few fine distinct spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 15 percent clay; slightly acid; abrupt smooth boundary. [Combined thickness of the Ap horizons is 15 to 25 cm (6 to 10 inches)]

E--24 to 36 cm (9 to 14 inches); yellowish brown (10YR 5/6) silt loam, broken face; moderate medium platy structure; friable; common fine roots throughout; few fine prominent spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 17 percent clay; moderately acid; clear smooth boundary. [0 to 25 cm (0 to 10 inches) thick]

Bt1--36 to 50 cm (14 to 20 inches); yellowish brown (10YR 5/6) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; firm; common fine roots between peds; few faint yellowish brown (10YR 5/4) clay films on faces of peds; few fine prominent irregular black (10YR 2/1) manganese coatings on faces of peds; few fine prominent spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 28 percent clay; strongly acid; clear smooth boundary.

Bt2--50 to 76 cm (20 to 30 inches); 10 percent brown (10YR 5/3) and 60 percent yellowish brown (10YR 5/4) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; firm; common fine roots between peds; many distinct light gray (10YR 7/1) (dry) silt coats and common distinct dark yellowish brown (10YR 4/6) clay films on faces of peds; common fine faint irregular grayish brown (10YR 5/2) iron depletions with clear boundaries throughout; common medium faint irregular brown (7.5YR 4/4) and common fine prominent irregular yellowish

brown (10YR 5/8) masses of oxidized iron with clear boundaries throughout; few fine distinct irregular black (10YR 2/1) manganese coatings on faces of peds; few fine distinct spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 34 percent clay; very strongly acid; clear smooth boundary.

Bt3--76 to 106 cm (30 to 42 inches); brown (10YR 5/3) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; firm; common fine roots between peds; common faint brown (10YR 4/3) clay films on faces of peds; common fine faint irregular grayish brown (10YR 5/2) iron depletions with clear boundaries throughout; common medium prominent irregular strong brown (7.5YR 4/6), common medium distinct irregular yellowish brown (10YR 5/6) and common medium faint irregular yellowish brown (10YR 5/4) masses of oxidized iron with clear boundaries throughout; few fine distinct irregular black (10YR 2/1) manganese coatings on faces of peds; few fine distinct spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 30 percent clay; very strongly acid; abrupt smooth boundary. [Combined thickness of the Bt horizons is 61 to 102 cm (24 to 40 inches)]

Btx1--106 to 150 cm (42 to 59 inches); brown (10YR 5/3) silt loam; weak coarse prismatic structure; firm; common fine roots in cracks; few prominent light gray (10YR 7/1) (dry) silt coats and common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; common medium distinct irregular yellowish brown (10YR 5/6) masses of oxidized iron with clear boundaries throughout; common fine distinct irregular black (10YR 2/1) manganese coatings on faces of peds; few fine distinct spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; brittle in 60 percent of matrix; about 25 percent clay; strongly acid; abrupt smooth boundary.

2Btx2--150 to 196 cm (59 to 77 inches); yellowish brown (10YR 5/6) silt loam; weak medium prismatic structure; firm; few distinct dark grayish brown (10YR 4/2) clay films on faces of peds; common fine prominent irregular black (10YR 2/1) manganese coatings on faces of peds; few fine prominent spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; brittle in 60 percent of matrix; about 22 percent clay; moderately acid; clear smooth boundary. [Combined thickness of Btx or 2Btx horizons is 50 to 102 cm (20 to 40 inches)]

2Bt1--196 to 224 cm (77 to 88 inches); yellowish brown (10YR 5/6) silt loam; weak medium prismatic structure; firm; few distinct brown (7.5YR 4/4) clay films on faces of peds; common fine prominent irregular black (10YR 2/1) manganese coatings on faces of peds; few fine prominent spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 25 percent clay; slightly acid; clear smooth boundary.

2Bt2--224 to 234 cm (88 to 92 inches); yellowish brown (10YR 5/6) silty clay loam; strong medium prismatic structure; firm; few distinct brown (10YR 4/3) clay films on faces of peds; common fine prominent irregular black (10YR 2/1) manganese coatings on faces of peds; few fine prominent spherical weakly cemented black (10YR 2/1) iron-manganese concretions with sharp boundaries throughout; about 30 percent clay; slightly acid. [Combined thickness of 2Bt or B't horizons is 0 to 76 cm (0 to 30 inches)]

TYPE LOCATION: Randolph County, Illinois; about 4 miles south of Coulterville; approximately 1,919 feet north and 2,583 feet west of the southeast corner of sec. 1, T. 5 S., R. 5 W. USGS Percy, Illinois topographic quadrangle; lat. 38 degrees, 07 minutes, 21 seconds N. and long. 89 degrees, 36 minutes, 06 seconds W.; UTM Zone 16, 271952 easting and 4222620 northing; NAD 83.

RANGE IN CHARACTERISTICS:
Depth to redoximorphic iron depletions: less than 102 cm (40 inches)
Depth to fragic soil properties: 102 to 152 cm (40 to 60 inches), except severely eroded pedons range from 76 to 127 cm (30 to 50 inches)
Depth to the base of the argillic horizon: 102 to more than 203 cm (40 to more than 80 inches)
Thickness of Peoria loess: 127 to 203 cm (50 to 80 inches), except severely eroded pedons range from 102 to 152 cm (40 to 60 inches)
Depth to the base of soil development: greater than 203 cm (80 inches)
Particle-size control section: averages 27 to 35 percent clay and less than 7 percent sand
Series control section: contains less than 15 percent by volume rock fragments in all layers

Ap or A horizon:
Hue: 10YR
Value: 4 or 5 (6 or 7 dry); undisturbed A horizon has value of 3 (5 or 6 dry)
Chroma: 2 to 4; undisturbed A horizon has chroma of 1 or 2
Texture: silt loam, except in severely eroded pedons is silty clay loam
Clay content: 18 to 32 percent
Sand content: 1 to 7 percent
Moist bulk density: 1.3 to 1.5 g/cc
Sodium absorption ratio: 0 to 1
Reaction: moderately acid to neutral, depending on the liming history

E horizon, where present:
Hue: 10YR
Value: 4 or 5 (6 or 7 dry)
Chroma: 2 to 6
Texture: silt loam
Clay content: 15 to 27 percent
Sand content: 1 to 7 percent
Moist bulk density: 1.3 to 1.5 g/cc
Sodium absorption ratio: 0 to 1
Reaction: very strongly acid to slightly acid

Some pedons have EB, BE, EBt or a Bt/E horizons of silt loam or silty clay loam

Bt horizons:
Hue: 7.5YR or 10YR
Value: 4 to 6
Chroma: 3 to 6
Texture: silty clay loam
Clay content: 28 to 35 percent
Sand content: 1 to 7 percent
Moist bulk density: 1.4 to 1.6 g/cc
Sodium absorption ratio: 0 to 2
Reaction: very strongly acid to moderately acid

Bt/E horizon, where present:
Hue: 7.5YR or 10YR
Value: 4 to 6
Chroma: 3 to 6

Texture: silt loam or silty clay loam
Other characteristics: Many gray to white silt coats are on faces of peds and filling voids between peds; horizon thickness is 2 to 4 inches

Btx and 2Btx horizons:
Hue: 7.5YR, 10YR, or 2.5Y
Value: 4 to 6
Chroma: 2 to 6
Texture: silt loam or silty clay loam
Moist consistence: firm or very firm, brittle in 60 percent or more of volume
Clay content: 20 to 32 percent
Sand content: 1 to 15 percent
Moist bulk density: 1.45 to 1.65 g/cc
Sodium absorption ratio: 0 to 2
Reaction: very strongly acid or strongly acid, but ranges to moderately acid

B't, where present:
Hue: 7.5YR, 10YR, or 2.5Y
Value: 4 to 6
Chroma: 2 to 6
Texture: silt loam or silty clay loam
Clay content: 20 to 35 percent
Sand content: 1 to 15 percent
Moist bulk density: 1.45 to 1.65 g/cc
Sodium absorption ratio: 0 to 2
Reaction: very strongly acid or strongly acid, but ranges to moderately acid

2Bt and 3Btb, where present:
Hue: 7.5YR, 10YR, or 2.5Y
Value: 4 to 6
Chroma: 2 to 6
Texture: silt loam, loam, clay loam and silty clay loam
Clay content: 20 to 35 percent
Sand content: 5 to 30 percent
Rock fragment content: 0 to 5 percent
Moist bulk density: 1.45 to 1.65 g/cc
Sodium absorption ratio: 0 to 2
Reaction: strongly acid to slightly acid

COMPETING SERIES: There are no competing series for Homen in the same family classification. Rend soils are in a closely related classification and have a (Btx) horizon with fragic soil properties, but have lower clay activity in the control section.

GEOGRAPHIC SETTING: Homen soils are on gently sloping to strongly sloping convex summits, shoulders, and backslopes on till plains or ground moraines. Slope ranges from 2 to 18 percent. These soils formed in either Peoria loess, Peoria and Roxana loess (also called Roxana Silt), or in loess and the underlying mix of Roxana loess and glacial drift. Mean annual temperature is 12 to 14 degrees C (54 to 57 degrees F), mean annual precipitation is 91 to 107 cm (36 to 42 inches), frost-free period is 170 to 200 days, and elevation is 107 to 244 meters (350 to 800 feet) above sea level.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the Bunkum, Marine, Oconee, Pierron, and Ruma soils. The somewhat poorly drained Bunkum soils are on slopes of upland drainage ways below the Homen soils. The somewhat poorly drained, fine-textured Marine soils are on less sloping summits. The somewhat poorly drained Oconee soils have a dark surface layer, are fine-textured, and are farther from the drainage ways. The poorly drained, fine-textured Pierron soils are on nearly level interfluves or in slight depressions. The well drained Ruma soils are on convex slopes above the Homen soils.

DRAINAGE AND SATURATED HYDRAULIC CONDUCTIVITY: Moderately well drained; A perched, seasonal water table is at a depth of 46 to 107 centimeters (1.5 to 3.5 feet) from January through April in most years. Saturated hydraulic conductivity is moderately high or high (1.41 to 14.11 micrometers/sec) above horizons with fragic soil properties and moderately low to moderately high (0.42 to 4.23 micrometers/sec) in and below horizons with fragic soil properties. Permeability is moderate or moderately slow above horizons with fragic soil properties and is slow within horizons with fragic soil properties and moderately slow below. The potential for surface runoff is medium to high.

USE AND VEGETATION: Most areas are cropped to corn, soybeans, and wheat. A few areas are pastured or wooded. Native vegetation is deciduous trees.

DISTRIBUTION AND EXTENT: Southwestern Illinois. Extent is large, mainly in MLRA 114B and to a lesser extent in MLRAs 108B and 115C.

MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE: Indianapolis, Indiana

SERIES ESTABLISHED: Randolph County, Illinois, 1997.

REMARKS: During the initial soil surveys (1970s thru 1990s) of Bond, Jackson, Madison, Monroe, Perry, Randolph, St. Clair and Washington Counties, Homen soils were correlated as either the Hosmer series (Oxyaquic Fragiudalfs), the Muren series (Aquic Hapludalfs), or the Rozetta series (Oxyaquic Hapludalfs).

1997-1998 (RAL-GRS) Homen series was established and classified as (Oxyaquic Hapludalfs) in Randolph County.

In 2009, because of brittleness described in Hosmer typical pedons from Madison, Perry, Randolph and Washington Counties initial soil survey reports and in a 2007 description of the OSD site, classification is revised to (Fragic Oxyaquic Hapludalfs).

Brittleness was also described as an inclusion in the Rozetta 279B (Madison Co. Soil Survey Report 1986) and Muren 453B map unit descriptions (Monroe Co. Soil survey Report 1987)

In addition to typical pedons in county soil survey reports other pedons previously described as Hosmer which are located within the Homen geographical extent include:
Udic moisture regime.
59IL117001 80IL145009 80IL157129
59IL135002 80IL157128

Diagnostic horizons and features recognized in this pedon are:
Ochric epipedon - the zone from the surface to a depth of 36 cm (14 inches), Ap1, Ap2 and E horizons.

Argillic horizon - the zone from approximately 36 to 234 cm (14 to 92 inches), Bt1, Bt2, Bt3, Btx1, 2Btx2, 2Bt'1 and 2Bt'2 horizons.
Fragic Soil Properties 106 to 196 cm (42 to 77 inches), Btx1 and 2Btx2 horizons.
Udic moisture regime.

National Cooperative Soil Survey
U.S.A.

LOCATION STOY IL+IN

Established Series
Rev. GOW-JBF-TJE
08/2011

STOY SERIES

The Stoy series consists of very deep, somewhat poorly drained soils that formed in loess on uplands. Slope ranges from 0 to 10 percent. Mean annual precipitation is about 1067 mm (42 inches), and mean annual air temperature is about 13 degrees C (56 degrees F).

TAXONOMIC CLASS: Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs

TYPICAL PEDON: Stoy silt loam, on a 3 percent slope in a cultivated field at an elevation of about 119 meters (389 feet) above mean sea level. (Colors are for moist soil unless otherwise stated.)

Ap--0 to 15 cm (0 to 6 inches); brown (10YR 4/3) silt loam; weak fine granular structure; friable; many roots; few fine iron-manganese concretions throughout; very strongly acid; abrupt smooth boundary. [15 to 25 cm (6 to 10 inches) thick]

El--15 to 23 cm (6 to 9 inches); mixed light yellowish brown (10YR 6/4) and yellowish brown (10YR 5/4) silt loam; weak thin platy structure parting to weak fine granular; friable; common roots; common very dark grayish brown (10YR 3/2) organic stains; few medium distinct light brownish gray (10YR 6/2) iron depletions in the matrix; many fine iron-manganese concretions throughout; very strongly acid; clear smooth boundary.

E2--23 to 33 cm (9 to 13 inches); yellowish brown (10YR 5/4) silt loam; weak fine and medium granular structure; friable; common roots; common medium distinct light brownish gray (10YR 6/2) iron depletions and yellowish brown (10YR 5/6) masses of oxidized iron in the matrix; many fine iron-manganese concretions throughout; very strongly acid; clear smooth boundary. [Combined thickness of the E horizon is 0 to 25 cm (10 inches).]

BE--33 to 41 cm (13 to 16 inches); yellowish brown (10YR 5/6) silty clay loam; weak fine and medium subangular blocky structure; friable; common roots; few medium prominent light brownish gray (10YR 6/2) iron depletions in the matrix; many fine iron-manganese concretions throughout; very strongly acid; clear smooth boundary. [0 to 15 cm (6 inches) thick]

Btl--41 to 53 cm (16 to 24 inches); yellowish brown (10YR 5/8) silty clay loam; moderate fine subangular blocky structure; firm; common roots; common prominent brown (10YR 4/3) clay films on faces of peds; common prominent light brownish gray (10YR 6/2) clay depletions on faces of peds, light gray (10YR 7/1) dry; few fine prominent light brownish gray (10YR 6/2) and brown (10YR 5/3) iron depletions in the matrix; many fine iron-manganese concretions throughout; very strongly acid; clear smooth boundary.

Bt2--53 to 69 cm (24 to 27 inches); yellowish brown (10YR 5/8 and 10YR 5/4) silty clay loam; moderate coarse subangular blocky structure parting to moderate fine and very fine angular blocky; firm; common roots; many prominent light brownish gray (10YR 6/2) clay depletions on faces of larger peds and many distant brown (10YR 4/3) clay films on faces of smaller angular peds; few fine prominent light gray (10YR 7/1) iron depletions in the matrix; many medium iron-manganese concretions throughout; many black (10YR 2/1) threadlike manganese coatings and spherical manganese masses; very strongly acid; clear smooth boundary

Bt3--69 to 81 cm (27 to 32 inches); yellowish brown (10YR 5/8 and 10YR 5/4) silty clay loam; moderate medium subangular blocky structure; very firm; common roots; many distinct brown (10YR 4/3) clay films on faces of peds; few fine prominent light gray (10YR 7/1) and light brownish gray (10YR 6/2) iron depletions in the matrix; many fine iron-manganese concretions throughout; common black (10YR 2/1) threadlike manganese coatings and spherical manganese masses; very strongly acid; gradual smooth boundary. [Combined thickness of the Bt horizon is 25 to 76 cm (10 to 30 inches).]

Btxl--81 to 91 cm (32 to 36 inches); mottled grayish brown (10YR 5/2), brown (10YR 5/3), and yellowish brown (10YR 5/8) silty clay loam; weak coarse subangular blocky structure; firm; common roots; common distinct brown (10YR 4/3) clay films on faces of peds; few fine distinct light gray (10YR 7/1) iron depletions in the matrix; many iron-manganese concretions throughout; brittle; very strongly acid; gradual smooth boundary.

Btx2--91 to 114 cm (36 to 45 inches); mottled grayish brown (10YR 5/2) brown (10YR 5/3) and yellowish brown (10YR 5/8) silty clay loam; weak coarse prismatic structure; extremely firm; few roots; few distinct brown (10YR 4/3) clay films on faces of peds; common fine and medium distinct light gray (10YR 7/1) iron depletions in the matrix; many fine iron-manganese concretions throughout; brittle; very strongly acid; gradual smooth boundary. [Combined thickness of the Btx horizon is 20 to 76 cm (8 to 30 inches).]

Bx--114 to 203 cm (45 to 80 inches); mottled grayish brown (10YR 5/2), pale brown (10YR 6/3), yellowish brown (10YR 5/8), and light gray (10YR 7/1) silt loam; weak medium prismatic structure; extremely firm; few very dark grayish brown (10YR 3/2) threadlike manganese coatings and spherical manganese masses; many fine iron-manganese concretions throughout; brittle; very strongly acid.

TYPE LOCATION: Gallatin County, Illinois, about 2 miles southwest of Omaha; 1,320 feet east of southwest corner of sec. 28, T. 7 S., R. 8 E.; USGS Norris City topographic quadrangle; lat. 37 degrees 52 minutes 43 seconds N. and long. 88 degrees 19 minutes 58 seconds W.; UTM Zone 16, 382795 easting and 4193237 northing, NAD 83.

RANGE IN CHARACTERISTICS:
Depth to fragic soil properties: 64 to 114 cm (25 to 45 inches)
Depth to the base of the argillic horizon: 89 to 165 cm (35 to 65 inches)
Particle-size control section: averages 27 and 35 percent clay
Series control section: less than 10 percent fine sand or coarser material throughout the profile

Ap horizon:
Hue: 10YR
Value: 4 or 5
Chroma: 2 or 3
Texture: silt loam, but includes silty clay loam in some eroded pedons

Reaction: very strongly acid to neutral

A horizon (in undisturbed areas):
Hue: 10YR
Value: 2 to 3
Chroma: 1 or 2
Texture: commonly silt loam; less commonly silty clay loam
Reaction: very strongly acid to neutral

E, BE, or B/E horizon, where present:
Hue: 10YR
Value: 5 or 6
Chroma: 3 or 4
Reaction: very strongly acid to slightly acid
Texture: silt loam; silty clay loam in some BE horizons
Reaction: very strongly acid to neutral

Bt horizon:
Hue: 10YR or 2.5Y
Value: 4 to 6
Chroma: 2 to 8
Texture: silty clay loam or silt loam
Reaction: very strongly acid or strongly acid

Btx or Bx horizon
Hue: 10YR
Value: 5 to 7
Chroma: 2 to 8
Texture: silty clay loam or silt loam
Clay content: 24 to 35 percent
Reaction: very strongly acid to moderately acid

C horizon, where present
Hue: 10YR
Value: 5 to 7
Chroma: 1 to 8
Texture: silt loam
Clay content: 20 to 27 percent
Reaction: very strongly acid to neutral

COMPETING SERIES: There are no other series in this family.

GEOGRAPHIC SETTING: The Stoy soils are on ridgetops on loess covered Illinoian till plains and bedrock plateaus. Slope ranges from 0 to 10 percent. The soils are formed in loess. Mean annual precipitation ranges from 889 to 1143 mm (35 to 45 inches). Mean annual air temperature ranges from 12 to 14 degrees C (54 to 57 degrees F). Frost-free period is 180 to 200 days. Elevation is 104 to 311 meters (340 to 1,020 feet) above mean sea level.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the Hosmer and Weir soils. Hosmer soils

are moderately well drained, have fragipan horizons, and are on nearby landscapes generally with steeper slope gradients. Weir soils are poorly drained and are dominated by chroma of 1 and 2 in the solum.

DRAINAGE AND SATURATED HYDRAULIC CONDUCTIVITY: Somewhat poorly drained. Depth to the top of a perched seasonal high water table ranges from 31 to 61 cm (1 to 2 feet) in drained areas between January and May in normal years. Potential for surface runoff is low to high. Saturated hydraulic conductivity is moderately low. Permeability is slow.

USE AND VEGETATION: Most areas are cropland but some still remains in forest. Native vegetation is mixed hardwood forest.

DISTRIBUTION AND EXTENT: MLRAs 113, 114B, 115A, 115B, 120A, 120C and 122 in southern Illinois and southern Indiana. The series is of moderate extent.

MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE: Indianapolis, Indiana

SERIES ESTABLISHED: Lawrence County, Illinois, 1952.

REMARKS:
Diagnostic horizons and features recognized in this pedon are:
Ochric epipedon: from the surface to a depth of 41 cm (16 inches) (Ap, E1, E2, BE horizons).
Argillic horizon: from a depth of 41 to 114cm (16 to 45 inches) (Bt1, Bt2, Bt3, Btx1, Btx2 horizons).
Aquic conditions: redoximorphic features present in all horizons beneath the Ap horizon.

National Cooperative Soil Survey
U.S.A.

APPENDIX

B BORING LOGS

Environmental Design International inc.
33 West Monroe, Suite 1825
Chicago, IL 60603
Telephone: 312-345-1400

BORING NUMBER 3530-15-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-15
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 4/22/21 **LOGGED BY** M. Fischer
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.08103 **LONGITUDE** -89.381977
AT END OF DRILLING ---
COMPLETION DEPTH 3 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	CONCRETE
2.5	GP	100		0 to 3-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML	3.0	(CL-ML) SILTY CLAY - brown, very stiff, dry

Bottom of borehole at 3.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-16
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.080905 **LONGITUDE** -89.381523
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 TOPSOIL
								(CL-ML) SILTY CLAY - brown, stiff, moist
					PID = 0 ppm			
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
5.0					PID = 0 ppm	CL-ML		
7.5	GP	100			PID = 0 ppm			
10.0	GP	75		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
					PID = 0 ppm			12.0
								Bottom of borehole at 12.0 feet.

EDI IDOT SOIL BORING NO WELL - GINT STD US.GDT - 5/7/21 16:26 - S:\BENTLEY\GINT\GINTCL\PROJECTS\0945.032_WSP 172-027-WO093.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B02

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080975 **LONGITUDE** -89.381507
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 TOPSOIL
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - brown, very stiff, moist to dry
2.5					PID = 0 ppm			
								4.0
5.0	GP	100			PID = 0 ppm	CL-ML		(CL-ML) becomes medium stiff to stiff
7.5					PID = 0 ppm			8.0
	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) becomes orangish brown
10.0					PID = 0 ppm			
								12.0
								Bottom of borehole at 12.0 feet.

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The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B03

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.081016 **LONGITUDE** -89.381539
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			FILL - dark brown silty clay, trace brick, stiff, moist
2.0								
2.5					PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - brown, medium stiff, moist
4.0								
5.0	GP	100			PID = 0 ppm	CL-ML		(CL-ML) becomes very stiff
7.5					PID = 0 ppm			
10.0	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
12.0					PID = 0 ppm			

Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B04

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.081194 **LONGITUDE** -89.381541
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
								(CL-ML) SILTY CLAY - brown, medium to very stiff, moist
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
2.5					PID = 0 ppm			
							4.0	
								(CL-ML) becomes stiff
5.0					PID = 0 ppm			
	GP	100						
7.5					PID = 0 ppm			
				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.		CL-ML		
10.0	GP	100			PID = 0 ppm			
					PID = 0 ppm		12.0	
								Bottom of borehole at 12.0 feet.

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The transition may be gradual.

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BORING NUMBER 3530-16-B05

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.081379 **LONGITUDE** -89.381506
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - light brown, medium to very stiff, moist
2.5					PID = 0 ppm			
							4.0	
	GP	100			PID = 0 ppm	CL-ML		(CL-ML) beocmes stiff
5.0								
					PID = 0 ppm			
7.5								
	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
10.0							10.0	
						CL-ML		(CL-ML) becomes orange and gray, very stiff
					PID = 0 ppm			
							12.0	

Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B06

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-16
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.081397 **LONGITUDE** -89.381742
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
								(CL-ML) SILTY CLAY - brown, stiff, moist
	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
2.5					PID = 0 ppm			
	GP	100			PID = 0 ppm	CL-ML		
5.0					PID = 0 ppm			
7.5	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
10.0					PID = 0 ppm			
							12.0	Bottom of borehole at 12.0 feet.

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The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B07

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.081217 **LONGITUDE** -89.381721
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
								(CL-ML) SILTY CLAY - brown, stiff, moist
					PID = 0 ppm			
2.5	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
5.0					PID = 0 ppm			
	GP	100				CL-ML		
7.5					PID = 0 ppm			
	GP	400		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
10.0					PID = 0 ppm		12.0	

Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B08

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.081029 **LONGITUDE** -89.38171
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			FILL - dark brown silty clay, trace brick and gravel, stiff, moist
2.5					PID = 0 ppm	CL-ML	2.0	(CL-ML) SILTY CLAY - light brown stiff, moist
	GP	100					4.0	(CL-ML) becomes grayish brown, very stiff
5.0					PID = 0 ppm	CL-ML		
7.5					PID = 0 ppm		8.0	(CL-ML) becomes orangish brown
	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
10.0					PID = 0 ppm		12.0	Bottom of borehole at 12.0 feet.

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The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B09

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080981 **LONGITUDE** -89.381593
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
					PID = 0 ppm			FILL - dark brown silty clay, trace brick and gravel, stiff, moist
	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.			2.0	
2.5					PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - brown, soft to stiff, dry
							4.0	
5.0	GP	100			PID = 0 ppm	CL-ML		(CL-ML) becomes grayish orange, medium to very stiff, moist
7.5					PID = 0 ppm		8.0	
	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) becomes orangish brown
10.0					PID = 0 ppm		12.0	
								Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-16-B10

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080896 **LONGITUDE** -89.381581
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-16
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	TOPSOIL
								(CL-ML) SILTY CLAY - brown, soft to stiff, moist
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
2.5					PID = 0 ppm			
							4.0	
								(CL-ML) becomes stiff to very stiff
5.0					PID = 0 ppm			
	GP	100						
7.5					PID = 0 ppm	CL-ML		
				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.				
10.0	GP	100			PID = 0 ppm			
					PID = 0 ppm		12.0	
								Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-18-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080873 **LONGITUDE** -89.381369
COMPLETION DEPTH 3 ft

ISGS SITE NAME 3530-18
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
	GP	100		0 to 3-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			0.3 FILL - gravel, loose, dry becomes dark brown silty clay, with some gravel, stiff, moist
2.5								3.0

Bottom of borehole at 3.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-29-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-29
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.080736 **LONGITUDE** -89.381443
AT END OF DRILLING ---
COMPLETION DEPTH 2 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0	GP	100		0 to 2-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			ASPHALT
1.0						CL-ML		(CL-ML) SILTY CLAY - light brown, medium stiff, moist
2.0								Bottom of borehole at 2.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-30-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-30
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.080662 **LONGITUDE** -89.381441
AT END OF DRILLING ---
COMPLETION DEPTH 2 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0	GP	100		0 to 2-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			ASPHALT
1.0						CL-ML		(CL-ML) SILTY CLAY - light brown, medium stiff, moist
2.0								Bottom of borehole at 2.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-31-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-31
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/3/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.080219 **LONGITUDE** -89.381369
AT END OF DRILLING ---
COMPLETION DEPTH 15 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 Fill - brick
								becomes dark brown clay, trace gravel, stiff, dry
								1.0 (CL-ML) SILTY CLAY - light and dark brown, stiff, dry
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
					PID = 0 ppm			
5.0								5.0 (CL-ML) becomes medium stiff, moist
7.5	GP	80			PID = 0 ppm	CL-ML		
								7.0 (CL-ML) becomes greenish brown, very stiff, slight olfactory
10.0				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
					PID = 0.5 ppm	CL-ML		
12.5	GP	100			PID = 24.5 ppm			
					PID = 3.8 ppm			
15.0								15.0

Bottom of borehole at 15.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-31-B02

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/3/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.08032 **LONGITUDE** -89.381455
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-31
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								ASPHALT
0.5								CONCRETE
1.0								(CL-ML) SILTY CLAY - brown, stiff, moist
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
5.0	GP	100			PID = 0 ppm			
7.5	GP	100			PID = 0 ppm			
8.0								(CL-ML) becomes very stiff
10.0	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
12.0					PID = 0 ppm			Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-34-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080051 **LONGITUDE** -89.382483
COMPLETION DEPTH 3 ft

ISGS SITE NAME 3530-34
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 ASPHALT
								0.5 FILL - gravel, dense, dry
	GP	100		0 to 3-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - light brown, stiff, moist
2.5								3.0

Bottom of borehole at 3.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-35-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-35
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.080023 **LONGITUDE** -89.382371
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 ASPHALT
								FILL - gravel, loose, dry
					PID = 0 ppm			1.0
								becomes clay, sand, gravel, and brick, dense, moist
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
								4.0
5.0	GP	100			PID = 0 ppm			becomes brown clay with trace gravel, brick, and wood pieces
7.5					PID = 0 ppm			8.0
10.0	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - grayish brown, moist
					PID = 0 ppm			12.0
								Bottom of borehole at 12.0 feet.

EDI IDOT SOIL BORING NO WELL - GINT STD US.GDT - 5/7/21 16:27 - S:\BENTLEY\GINT\GINTCL\PROJECTS\0945.032_WSP 172-027-WO093.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-35-B02

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-35
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.08002 **LONGITUDE** -89.382261
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 ASPHALT
								FILL - gravel and sand, loose, dry
					PID = 0 ppm			1.0
								becomes brown sand, dense, mosit
2.5	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			4.0
								becomes brown clay and sand, some brick and gravel, stiff, moist
5.0	GP	75			PID = 0 ppm			7.0
7.5					PID = 0 ppm			(CL-ML) SILTY CLAY - light brown, stiff, moist
10.0	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		12.0
					PID = 0 ppm			Bottom of borehole at 12.0 feet.

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The transition may be gradual.

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BORING NUMBER 3530-35-B03

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080003 **LONGITUDE** -89.382073
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-35
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 ASPHALT
								FILL - sand and gravel, loose, moist
								1.0
					PID = 0 ppm			(CL-ML) SILTY CLAY - dark brown, stiff, moist
2.5	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
5.0					PID = 0 ppm			
	GP	100						6.0
								(CL-ML) becomes light brown, medium stiff
7.5					PID = 0 ppm	CL-ML		
								8.0
				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.				(CL-ML) becomes orangish brown, very stiff
10.0	GP	100			PID = 0 ppm	CL-ML		
					PID = 0 ppm			
								12.0
								Bottom of borehole at 12.0 feet.

EDI IDOT SOIL BORING NO WELL - GINT STD US.GDT - 5/7/21 16:27 - S:\BENTLEY\GINT\GINTCL\PROJECTS\0945.032_WSP 172-027-WO093.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-35-B04

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079587 **LONGITUDE** -89.382047
COMPLETION DEPTH 4 ft

ISGS SITE NAME 3530-35
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	FILL - gravel, loose, dry
	GP	75		0 to 4-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - brown, soft to stiff, moist
2.5					PID = 0 ppm		4.0	

Bottom of borehole at 4.0 feet.

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The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-37-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-37
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/3/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.079655 **LONGITUDE** -89.381848
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, grayish brown, dense, moist
2.5	GP	50		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
5.0	GP	50			PID = 0 ppm			
6.0					PID = 0 ppm			(CL-ML) SILTY CLAY - brown, stiff, moist
7.5	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
10.0					PID = 0 ppm			
12.0								Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-37-B02

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/3/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079656 **LONGITUDE** -89.3816
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-37
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	CONCRETE
								FILL - sand and gravel, loose, dry
							1.0	
					PID = 0 ppm			(CL-ML) SILTY CLAY - light brown, stiff, moist
2.5	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
5.0	GP	100			PID = 0 ppm	CL-ML		
7.5					PID = 0 ppm			
10.0	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
					PID = 0 ppm		12.0	

Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080006 **LONGITUDE** -89.381734
COMPLETION DEPTH 15 ft

ISGS SITE NAME 3530-39
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, loose, moist
								0.5 (CL-ML) SILTY CLAY - light brown, soft to stiff, moist
2.5	GP	60		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
5.0					PID = 0 ppm			5.0 (CL-ML) becomes medium stiff
7.5	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
10.0					PID = 0 ppm			10.0 (CL-ML) becomes orangish brown, very stiff
12.5	GP	80			PID = 0 ppm	CL-ML		
15.0					PID = 0 ppm			15.0 Bottom of borehole at 15.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B02

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079952 **LONGITUDE** -89.381681
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-39
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, loose, moist
								0.5
								becomes brown silty clay, some gravel and brick, dense, moist
	GP	75		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
2.5					PID = 0 ppm			
								4.0
								(CL-ML) SILTY CLAY - light brown, stiff, moist
5.0					PID = 0 ppm			
	GP	100						
7.5					PID = 0 ppm	CL-ML		
				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.				
10.0	GP	100			PID = 0 ppm			
					PID = 0 ppm			
								12.0
								Bottom of borehole at 12.0 feet.

EDI IDOT SOIL BORING NO WELL - GINT STD US.GDT - 5/7/21 16:27 - S:\BENTLEY\GINT\GINTCL\PROJECTS\0945.032_WSP 172-027-WO093.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B03

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079849 **LONGITUDE** -89.381681
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-39
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, loose, moist
								0.5
								becomes brown silty clay, trace gravel and brick, stiff, moist
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm PID = 0 ppm			
								4.0
5.0	GP	50			PID = 0 ppm PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - brown, medium stiff, moist
7.5								8.0
10.0	GP	75		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm PID = 0 ppm	CL-ML		(CL-ML) becomes orangish brown, very stiff
								12.0
								Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B04

CLIENT WSP / IDOT PTB 172-027; WO 93
ISGS SITE NAME 3530-39
EDI PROJECT NUMBER 0945.033
SITE LOCATION Pinckneyville, Perry County, IL
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
DRILLING CONTRACTOR WSP
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LATITUDE 38.07984 **LONGITUDE** -89.381572
AT END OF DRILLING ---
COMPLETION DEPTH 12 ft
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, loose, moist
								0.5 (CL-ML) SILTY CLAY - brown, stiff, moist
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm PID = 0 ppm	CL-ML		
5.0	GP	25			PID = 0 ppm PID = 0 ppm			
7.5	GP	25		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm PID = 0 ppm			
10.0								12.0 Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B05

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079908 **LONGITUDE** -89.381517
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-39
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								0.3 ASPHALT
					PID = 0 ppm			FILL - dark brown silty clay, trace sand, gravel, and brick, stiff, moist
2.5	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			3.0
						CL-ML		(CL-ML) SILTY CLAY - light brown, stiff, moist
5.0					PID = 0 ppm			4.0
	GP	100						(CL-ML) becomes orangish brown, very stiff
7.5					PID = 0 ppm	CL-ML		
				6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
10.0	GP	75			PID = 0 ppm			12.0
								Bottom of borehole at 12.0 feet.

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The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-39-B06

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 5/4/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079983 **LONGITUDE** -89.38157
COMPLETION DEPTH 12 ft

ISGS SITE NAME 3530-39
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								FILL - sand and gravel, loose, moist
								0.5
								becomes brown silty clay, trace gravel, brick and sand, stiff, moist
	GP	100		0 to 6-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
2.5					PID = 0 ppm			
								4.0
								(CL-ML) SILTY CLAY - light brown, very stiff, moist
5.0	GP	100			PID = 0 ppm	CL-ML		
7.5					PID = 0 ppm			
	GP	100		6 to 12-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm			
10.0					PID = 0 ppm			
								12.0
								Bottom of borehole at 12.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-40-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.080001 **LONGITUDE** -89.381408
COMPLETION DEPTH 15 ft

ISGS SITE NAME 3530-40
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	GRAVEL
								(CL-ML) SILTY CLAY - brown, stiff, moist
2.5	GP	80		0 to 5-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
5.0					PID = 0 ppm		5.0	
								(CL-ML) becomes light brown, very stiff
7.5	GP	100		5 to 10-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
10.0					PID = 0 ppm		10.0	
					PID = 0 ppm			(CL-ML) becomes light brown and grayish brown, very stiff, dry to moist
12.5	GP	100		10 to 15-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		
15.0					PID = 0 ppm		15.0	

Bottom of borehole at 15.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

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BORING NUMBER 3530-47-B01

CLIENT WSP / IDOT PTB 172-027; WO 93
EDI PROJECT NUMBER 0945.033
DATE STARTED 4/22/21 **LOGGED BY** V. Roman
DRILLING CONTRACTOR WSP
DRILLING METHOD Geoprobe
LATITUDE 38.079357 **LONGITUDE** -89.381884
COMPLETION DEPTH 3 ft

ISGS SITE NAME 3530-47
SITE LOCATION Pinckneyville, Perry County, IL
SITE NAME FAP 42 / FAP 841 (IL 127 / IL 154)
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0							0.3	CONCRETE
	GP	100		0 to 3-foot depth interval soil sample collected for VOC, SVOC, Total/TCLP/SPLP metals, and pH analyses.	PID = 0 ppm	CL-ML		(CL-ML) SILTY CLAY - light brown, stiff, moist
2.5							3.0	

Bottom of borehole at 3.0 feet.

The stratification lines represent approximate boundaries.
The transition may be gradual.

APPENDIX

C SUMMARY OF ANALYTICAL RESULTS

Analytical Data Summary
PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

Key to Data Tables

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
mg/kg = Milligrams per kilogram.
mg/L = Milligrams per liter.
MSA = Metropolitan Statistical Area
TACO = Tiered Approach to Corrective Action Objectives
TCLP = Toxicity Characteristic Leaching Procedure.
SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
SPLP = Synthetic Precipitation Leaching Procedure.
ND = Not detected.
NA = Not analyzed or not applicable.
J = Estimated value.
U = Analyte was analyzed for but not detected.
PID = Photoionization detector.
-- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

= pH is less than 6.25 or greater than 9.0 standard units.
† = Concentration exceeds the most stringent MAC.
m = Concentration exceeds the MAC for an MSA.
* = Concentration exceeds the MAC for Chicago corporate limits.
c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
= Headspace reading exceeds background levels
= Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
= Concentration exceeds applicable comparison criteria.

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-15 (Vacant Lot)		Comparison Criteria					
BORING	3530-15-B01		MACs			TACO		
SAMPLE	3530-15-B01 (0-3)							
MATRIX	Soil							
DEPTH (feet)	0-3							
pH	5.8#		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID (meter units)	--							
VOCs (None Detected)								
SVOCs (None Detected)								
Inorganics (mg/kg)								
Antimony	**0.52**	**J**	5	--	--	31	82	--
Arsenic	**10**		11.3	13	--	13	61	--
Barium	**120**		1,500	--	--	5,500	14,000	--
Beryllium	**0.63**		22	--	--	160	410	--
Boron	**2.4**	**J**	40	--	--	16,000	41,000	--
Calcium	**4,600**		--	--	--	--	--	--
Chromium	**21**		21	--	--	230	690	--
Cobalt	**5.0**		20	--	--	4,700	12,000	--
Copper	**17**		2,900	--	--	2,900	8,200	--
Iron	**24,000**	**†m**	15,000	15,900	--	--	--	--
Lead	**15**		107	--	--	400	700	--
Magnesium	**3,100**		325,000	--	--	--	730,000	--
Manganese	**180**		630	636	--	1,600	4,100	--
Mercury	**0.015**	**J**	0.89	--	--	10	0.1	--
Nickel	**14**		100	--	--	1,600	4,100	--
Potassium	**1,500**		--	--	--	--	--	--
Selenium	**0.39**	**J**	1.3	--	--	390	1,000	--
Silver	**0.31**		4.4	--	--	390	1,000	--
Sodium	**170**		--	--	--	--	--	--
Thallium	**0.53**	**J**	2.6	--	--	6.3	160	--
Vanadium	**34**		550	--	--	550	1,400	--
Zinc	**58**		5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	**0.81**		--	--	--	--	--	2
SPLP Metals (Not Analyzed)								

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-16 (Vacant Lot)				Comparison Criteria					
BORING	3530-16-B01		3530-16-B02		MACs			TACO		
SAMPLE	3530-16-B01 (0-6)	3530-16-B01 (6-12)	3530-16-B02 (0-6)	3530-16-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.1	8.2	7.4	6.5						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	ND U	ND U	ND U	0.4	--	--	780	1,200	--
Methylene Chloride	ND U	ND U	ND U	ND U	0.02	--	--	13	34	--
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	**0.017 J**	ND U	ND U	--	--	--	--	--	--
Acenaphthylene	ND U	**0.0078 J**	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	**0.0068 J**	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	**0.047**	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	**0.039**	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	**0.063**	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	**0.025 J**	ND UJ	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	**0.020 J**	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	**0.057**	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	ND U	**0.076**	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	**0.018 J**	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	**0.014 J**	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	**0.038 J**	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	**0.083**	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.93 J**	**0.52 J**	**0.89 J**	**0.42 J**	5	--	--	31	82	--
Arsenic	**4.5 J**	**4.1**	**11**	**4.5**	11.3	13	--	13	61	--
Barium	**71 J**	**44**	**86**	**73**	1,500	--	--	5,500	14,000	--
Beryllium	**0.72**	**0.68**	**0.86**	**0.76**	22	--	--	160	410	--
Boron	**2.8 J**	**2.1 J**	**2.1 J**	**1.1 J**	40	--	--	16,000	41,000	--
Cadmium	ND UJ	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**26,000 J**	**7,100**	**6,400**	**1,200**	--	--	--	--	--	--
Chromium	**14**	**16**	**17**	**16**	21	--	--	230	690	--
Cobalt	**9.1 J**	**4.5**	**8.3**	**5.6**	20	--	--	4,700	12,000	--
Copper	**12**	**9.0**	**13**	**8.5**	2,900	--	--	2,900	8,200	--
Iron	**19,000 †m**	**13,000**	**24,000 †m**	**14,000**	15,000	15,900	--	--	--	--
Lead	**13 J**	**20**	**16**	**11**	107	--	--	400	700	--
Magnesium	**8,000 J**	**2,200**	**2,000**	**1,700**	325,000	--	--	--	730,000	--
Manganese	**330 J**	**180**	**600**	**260**	630	636	--	1,600	4,100	--
Mercury	**0.018**	**0.0081 J**	**0.040**	**0.059**	0.89	--	--	10	0.1	--
Nickel	**20**	**19**	**19**	**26**	100	--	--	1,600	4,100	--
Potassium	**1,200 J**	**690**	**760**	**570**	--	--	--	--	--	--
Selenium	**0.78**	**0.41 J**	**1.6 †**	**0.45 J**	1.3	--	--	390	1,000	--
Silver	**0.31**	**0.44**	**0.26 J**	**0.48**	4.4	--	--	390	1,000	--
Sodium	ND U	ND U	**86**	**140**	--	--	--	--	--	--
Thallium	ND U	ND U	**0.88**	**0.55 J**	2.6	--	--	6.3	160	--
Vanadium	**20**	**27**	**33**	**31**	550	--	--	550	1,400	--
Zinc	**54 J**	**49**	**51**	**34**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.88**	**0.60**	**0.38 J**	**0.17 J**	--	--	--	--	--	2
Boron	**0.23 J**	**0.23 J**	**0.17 J**	**0.13 J**	--	--	--	--	--	2
Cadmium	**0.0037 J**	**0.0024 J**	**0.0034 J**	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	**0.21 J**	**0.22 J**	**0.55**	--	--	--	--	--	5
Lead	**0.013 L**	ND U	ND U	ND U	--	--	--	--	--	0.0075
Nickel	ND U	**0.011 J**	**0.015 J**	**0.023 J**	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	**0.13 J**	**0.061 J**	**0.051 J**	**0.032 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	**0.016 L**	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-16 (Vacant Lot)				Comparison Criteria					
BORING	3530-16-B03		3530-16-B04		MACs			TACO		
SAMPLE	3530-16-B03 (0-6)	3530-16-B03 (6-12)	3530-16-B04 (0-6)	3530-16-B04 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	4.5#	5.5#	5.3#	5.7#						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	ND U	ND U	ND U	0.4	--	--	780	1,200	--
Methylene Chloride	ND U	ND U	ND U	ND U	0.02	--	--	13	34	--
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.94 J**	**0.46 J**	**0.80 J**	ND U	5	--	--	31	82	--
Arsenic	**7.9**	**4.2**	**9.3**	**3.4**	11.3	13	--	13	61	--
Barium	**140**	**300**	**89**	**39**	1,500	--	--	5,500	14,000	--
Beryllium	**0.59**	**0.89**	**0.76**	**0.64**	22	--	--	160	410	--
Boron	**1.1 J**	**0.63 J**	**3.7**	**3.4**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**1,400**	**990**	**2,100**	**1,100**	--	--	--	--	--	--
Chromium	**18**	**16**	**20**	**14**	21	--	--	230	690	--
Cobalt	**5.0**	**10**	**6.5**	**6.8**	20	--	--	4,700	12,000	--
Copper	**15**	**8.2**	**16**	**6.4**	2,900	--	--	2,900	8,200	--
Iron	**21,000 †m**	**13,000**	**22,000 †m**	**12,000**	15,000	15,900	--	--	--	--
Lead	**13**	**11**	**14**	**8.1**	107	--	--	400	700	--
Magnesium	**2,600**	**1,700**	**2,700**	**1,500**	325,000	--	--	--	730,000	--
Manganese	**160**	**360**	**330**	**270**	630	636	--	1,600	4,100	--
Mercury	**0.022**	ND U	**0.010 J**	**0.012 J**	0.89	--	--	10	0.1	--
Nickel	**13**	**20**	**15**	**22**	100	--	--	1,600	4,100	--
Potassium	**1,100**	**540**	**1,800**	**730**	--	--	--	--	--	--
Selenium	ND U	ND U	**0.46 J**	ND U	1.3	--	--	390	1,000	--
Silver	**0.35**	**0.58**	**0.41**	**0.36**	4.4	--	--	390	1,000	--
Sodium	**160**	**140**	ND U	ND U	--	--	--	--	--	--
Thallium	ND U	**0.36 J**	**0.53 J**	**0.59**	2.6	--	--	6.3	160	--
Vanadium	**27**	**26**	**37**	**26**	550	--	--	550	1,400	--
Zinc	**67**	**47**	**65**	**31**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.20 J**	**0.54**	**0.47 J**	**0.23 J**	--	--	--	--	--	2
Boron	**0.096 J**	ND U	**0.26 J**	**0.23 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	**0.37 J**	ND U	**0.76**	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Nickel	**0.012 J**	**0.034**	ND U	**0.038**	--	--	--	--	--	0.1
Zinc	**0.19 J**	**0.029 J**	**0.073 J**	**0.044 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-16 (Vacant Lot)				Comparison Criteria					
BORING	3530-16-B05		3530-16-B06		MACs			TACO		
SAMPLE	3530-16-B05 (0-6)	3530-16-B05 (6-12)	3530-16-B06 (0-6)	3530-16-B06 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	7.2	6.3	7.6	6.8						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	**0.011 J**	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	**0.00089 J**	ND U	ND U	0.4	--	--	780	1,200	--
Methylene Chloride	ND U	ND U	ND U	ND U	0.02	--	--	13	34	--
Tetrachloroethene	ND U	**0.00076 J**	ND U	ND U	0.06	--	--	11	28	--
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.056 J**	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	**0.035 J**	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.47**	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.58 †**	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.64**	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.27**	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.28**	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	**0.47**	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.078**	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	**0.43**	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.26**	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	**0.049**	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.12**	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	**0.46**	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**1.2**	**0.31 J**	**0.56 J**	**0.54 J**	5	--	--	31	82	--
Arsenic	**11**	**2.8**	**7.9**	**4.3**	11.3	13	--	13	61	--
Barium	**81**	**88**	**54**	**77**	1,500	--	--	5,500	14,000	--
Beryllium	**0.72**	**0.58**	**0.55**	**0.66**	22	--	--	160	410	--
Boron	**2.5 J**	**1.3 J**	**2.4 J**	**0.78 J**	40	--	--	16,000	41,000	--
Cadmium	**0.47**	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**2,800**	**1,000**	**2,200**	**1,100**	--	--	--	--	--	--
Chromium	**20**	**16**	**17**	**16**	21	--	--	230	690	--
Cobalt	**5.8**	**4.4**	**9.3**	**12**	20	--	--	4,700	12,000	--
Copper	**18**	**6.6**	**8.6**	**8.6**	2,900	--	--	2,900	8,200	--
Iron	**23,000 †m**	**12,000**	**18,000 †m**	**15,000**	15,000	15,900	--	--	--	--
Lead	**45**	**7.7**	**13**	**11**	107	--	--	400	700	--
Magnesium	**2,400**	**1,600**	**2,200**	**1,600**	325,000	--	--	--	730,000	--
Manganese	**250**	**210**	**330**	**680 †m**	630	636	--	1,600	4,100	--
Mercury	**0.16**	**0.028**	**0.062**	**0.027**	0.89	--	--	10	0.1	--
Nickel	**14**	**17**	**12**	**14**	100	--	--	1,600	4,100	--
Potassium	**1,200**	**850**	**960**	**660**	--	--	--	--	--	--
Selenium	**0.54 J**	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	**11 †**	**0.40**	**0.32**	**0.28**	4.4	--	--	390	1,000	--
Sodium	ND U	ND U	ND U	**80**	--	--	--	--	--	--
Thallium	**0.41 J**	**0.37 J**	**0.83**	**1.0**	2.6	--	--	6.3	160	--
Vanadium	**42**	**27**	**35**	**25**	550	--	--	550	1,400	--
Zinc	**96**	**31**	**39**	**31**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.37 J**	**0.46 J**	**0.20 J**	**0.37 J**	--	--	--	--	--	2
Boron	**0.14 J**	**0.13 J**	**0.16 J**	**0.12 J**	--	--	--	--	--	2
Cadmium	**0.0027 J**	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	**0.021 J**	ND U	ND U	--	--	--	--	--	1
Iron	**0.50**	ND U	**0.30 J**	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	--	--	--	--	--	0.15
Nickel	ND U	**0.063**	ND U	ND U	--	--	--	--	--	0.1
Silver	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	**0.082 J**	**0.035 J**	**0.042 J**	**0.031 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-16 (Vacant Lot)				Comparison Criteria					
BORING	3530-16-B07		3530-16-B08		MACs			TACO		
SAMPLE	3530-16-B07 (0-6)	3530-16-B07 (6-12)	3530-16-B08 (0-6)	3530-16-B08 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	5.2#	5.6#	5.6#	5.5#						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	ND U	ND U	ND U	0.4	--	--	780	1,200	--
Methylene Chloride	ND U	**0.0023 J**	ND U	ND U	0.02	--	--	13	34	--
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.82 J**	ND U	**0.55 J**	**0.44 J**	5	--	--	31	82	--
Arsenic	**11**	**3.4**	**7.4**	**5.5**	11.3	13	--	13	61	--
Barium	**57**	**67**	**130**	**88**	1,500	--	--	5,500	14,000	--
Beryllium	**0.67**	**0.70**	**0.64**	**0.68**	22	--	--	160	410	--
Boron	**3.0**	**1.1 J**	**3.1**	**0.71 J**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**1,400**	**1,100**	**1,900**	**1,200**	--	--	--	--	--	--
Chromium	**22 †**	**14**	**15**	**16**	21	--	--	230	690	--
Cobalt	**5.9**	**6.1**	**12**	**8.6**	20	--	--	4,700	12,000	--
Copper	**14**	**7.0**	**9.4**	**9.7**	2,900	--	--	2,900	8,200	--
Iron	**24,000 †m**	**12,000**	**16,000 †m**	**16,000 †m**	15,000	15,900	--	--	--	--
Lead	**16**	**8.1**	**23**	**12**	107	--	--	400	700	--
Magnesium	**2,900**	**1,700**	**1,700**	**1,700**	325,000	--	--	--	730,000	--
Manganese	**250**	**210**	**1,600 †m**	**450**	630	636	--	1,600	4,100	--
Mercury	**0.042**	ND U	**0.057**	**0.016 J**	0.89	--	--	10	0.1	--
Nickel	**14**	**20**	**12**	**16**	100	--	--	1,600	4,100	--
Potassium	**1,200**	**530**	**990**	**660**	--	--	--	--	--	--
Selenium	**0.41 J**	ND U	**0.64**	ND U	1.3	--	--	390	1,000	--
Silver	**0.33**	**0.48**	ND U	**0.31**	4.4	--	--	390	1,000	--
Sodium	ND U	**96**	ND U	**90**	--	--	--	--	--	--
Thallium	**0.56 J**	ND U	**2.9 J †**	**0.78**	2.6	--	--	6.3	160	--
Vanadium	**44**	**25**	**32**	**26**	550	--	--	550	1,400	--
Zinc	**53**	**40**	**42**	**40**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.22 J**	**0.52**	**0.45 J**	**0.31 J**	--	--	--	--	--	2
Boron	**0.24 J**	**0.13 J**	**0.23 J**	**0.14 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	**0.24 J**	**0.30 J**	ND U	**0.37 J**	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	--	--	--	--	--	0.15
Nickel	ND U	**0.040**	ND U	**0.011 J**	--	--	--	--	--	0.1
Thallium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	**0.041 J**	**0.096 J**	**0.051 J**	**0.026 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-16 (Vacant Lot)				Comparison Criteria					
BORING	3530-16-B09		3530-16-B10		MACs			TACO		
SAMPLE	3530-16-B09 (0-6)	3530-16-B09 (6-12)	3530-16-B10 (0-6)	3530-16-B10 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	6.6	**5.4#**	6.6	7.0						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	ND U	ND U	ND U	0.4	--	--	780	1,200	--
Methylene Chloride	ND U	ND U	ND U	ND U	0.02	--	--	13	34	--
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	**0.0070 J**	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	ND U	**0.033 J**	**0.010 J**	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.32 J**	**0.62 J**	**0.62 J**	ND U	5	--	--	31	82	--
Arsenic	**7.4**	**4.0**	**7.2**	**3.4**	11.3	13	--	13	61	--
Barium	**48**	**69**	**300**	**69**	1,500	--	--	5,500	14,000	--
Beryllium	**0.56**	**0.71**	**0.81**	**0.64**	22	--	--	160	410	--
Boron	**2.0 J**	**0.59 J**	**3.7**	**1.9 J**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**1,200**	**1,000**	**1,900**	**1,200**	--	--	--	--	--	--
Chromium	**15**	**17**	**13**	**16**	21	--	--	230	690	--
Cobalt	**4.0**	**7.0**	**12**	**6.6**	20	--	--	4,700	12,000	--
Copper	**7.7**	**8.0**	**18**	**19**	2,900	--	--	2,900	8,200	--
Iron	**16,000 †m**	**15,000**	**16,000 †m**	**12,000**	15,000	15,900	--	--	--	--
Lead	**12**	**8.6**	**130 †**	**34**	107	--	--	400	700	--
Magnesium	**1,800**	**1,800**	**1,300**	**1,700**	325,000	--	--	--	730,000	--
Manganese	**200**	**120**	**960 †m**	**300**	630	636	--	1,600	4,100	--
Mercury	**0.026**	**0.016 J**	**0.49**	**0.024**	0.89	--	--	10	0.1	--
Nickel	**9.2**	**13**	**18**	**15**	100	--	--	1,600	4,100	--
Potassium	**930**	**530**	**850**	**620**	--	--	--	--	--	--
Selenium	**0.46 J**	ND U	**0.67**	ND U	1.3	--	--	390	1,000	--
Silver	**0.36**	**0.41**	**0.41**	**0.50**	4.4	--	--	390	1,000	--
Sodium	ND U	**140**	ND U	**99**	--	--	--	--	--	--
Thallium	**0.41 J**	ND U	**1.5**	**0.48 J**	2.6	--	--	6.3	160	--
Vanadium	**32**	**27**	**28**	**24**	550	--	--	550	1,400	--
Zinc	**36**	**35**	**220**	**63**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.25 J**	**0.56**	**0.52**	**0.46 J**	--	--	--	--	--	2
Boron	**0.20 J**	**0.20 J**	**0.23 J**	**0.16 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	**0.47**	**0.21 J**	--	--	--	--	--	5
Lead	**0.015 L**	ND U	**0.018 L**	**0.019 L**	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	--	--	--	--	--	0.15
Nickel	ND U	**0.015 J**	ND U	**0.032**	--	--	--	--	--	0.1
Zinc	**0.12 J**	**0.039 J**	**0.31 J**	**0.25 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	**0.0095 L**	NA	**0.031 L**	**0.028 L**	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-18 (Shamrock Realty)		Comparison Criteria					
BORING	3530-18-B01		MACs			TACO		
SAMPLE	3530-18-B01 (0-3)							
MATRIX	Soil							
DEPTH (feet)	0-3							
pH	8.3							
PID (meter units)	--		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)								
SVOCs (mg/kg)								
2-Methylnaphthalene	**0.072**	**J**	--	--	--	--	--	--
Anthracene	**0.0085**	**J**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.025**	**J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.021**	**J**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.020**	**J**	0.9	2.1	1.5	2.1	170	--
Chrysene	**0.030**	**J**	88	--	--	88	17,000	--
Dibenzofuran	**0.047**	**J**	--	--	--	--	--	--
Fluoranthene	**0.024**	**J**	3,100	--	--	3,100	82,000	--
Naphthalene	**0.022**	**J**	1.8	--	--	170	1.8	--
Phenanthrene	**0.12**		--	--	--	--	--	--
Pyrene	**0.042**		2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	**0.63**	**J**	5	--	--	31	82	--
Arsenic	**8.4**		11.3	13	--	13	61	--
Barium	**130**		1,500	--	--	5,500	14,000	--
Beryllium	**0.74**		22	--	--	160	410	--
Boron	**11**		40	--	--	16,000	41,000	--
Calcium	**3,700**		--	--	--	--	--	--
Chromium	**13**		21	--	--	230	690	--
Cobalt	**6.4**		20	--	--	4,700	12,000	--
Copper	**15**		2,900	--	--	2,900	8,200	--
Iron	**20,000**	**†m**	15,000	15,900	--	--	--	--
Lead	**170**	**†**	107	--	--	400	700	--
Magnesium	**1,000**		325,000	--	--	--	730,000	--
Manganese	**520**		630	636	--	1,600	4,100	--
Mercury	**0.28**		0.89	--	--	10	0.1	--
Nickel	**12**		100	--	--	1,600	4,100	--
Potassium	**1,000**		--	--	--	--	--	--
Selenium	**1.1**		1.3	--	--	390	1,000	--
Silver	**0.41**		4.4	--	--	390	1,000	--
Sodium	**170**		--	--	--	--	--	--
Thallium	**0.28**	**J**	2.6	--	--	6.3	160	--
Vanadium	**26**		550	--	--	550	1,400	--
Zinc	**76**		5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	**0.38**	**J**	--	--	--	--	--	2
Boron	**0.072**	**J**	--	--	--	--	--	2
Iron	**0.30**	**J**	--	--	--	--	--	5
Lead	**0.021**	**L**	--	--	--	--	--	0.0075
Zinc	**0.064**	**J**	--	--	--	--	--	5
SPLP Metals (mg/L)								
Lead	**0.21**	**L**	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-29 (Shear Attitude Hair & Nail Salon)	Comparison Criteria					
BORING	3530-29-B01	MACs			TACO		
SAMPLE	3530-29-B01 (0-2)						
MATRIX	Soil						
DEPTH (feet)	0-2						
pH	8.2	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (mg/kg)							
Phenanthrene	**0.0056 J**	--	--	--	--	--	--
Inorganics (mg/kg)							
Antimony	**0.54 J**	5	--	--	31	82	--
Arsenic	**9.8**	11.3	13	--	13	61	--
Barium	**80**	1,500	--	--	5,500	14,000	--
Beryllium	**0.60**	22	--	--	160	410	--
Boron	**1.6 J**	40	--	--	16,000	41,000	--
Calcium	**2,500**	--	--	--	--	--	--
Chromium	**16**	21	--	--	230	690	--
Cobalt	**6.4**	20	--	--	4,700	12,000	--
Copper	**12**	2,900	--	--	2,900	8,200	--
Iron	**21,000 †m**	15,000	15,900	--	--	--	--
Lead	**20**	107	--	--	400	700	--
Magnesium	**2,100**	325,000	--	--	--	730,000	--
Manganese	**590**	630	636	--	1,600	4,100	--
Mercury	**0.041**	0.89	--	--	10	0.1	--
Nickel	**11**	100	--	--	1,600	4,100	--
Potassium	**1,200**	--	--	--	--	--	--
Selenium	**0.50 J**	1.3	--	--	390	1,000	--
Silver	**0.31**	4.4	--	--	390	1,000	--
Sodium	**1,600**	--	--	--	--	--	--
Vanadium	**28**	550	--	--	550	1,400	--
Zinc	**53**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	**0.21 J**	--	--	--	--	--	2
Iron	**0.93**	--	--	--	--	--	5
SPLP Metals (Not Analyzed)							

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-30 (Commercial Unit and Residential Space)	Comparison Criteria					
BORING	3530-30-B01	MACs			TACO		
SAMPLE	3530-30-B01 (0-2)						
MATRIX	Soil						
DEPTH (feet)	0-2						
pH	8.0						
PID (meter units)	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)							
SVOCs (None Detected)							
Inorganics (mg/kg)							
Antimony	**0.61 J**	5	--	--	31	82	--
Arsenic	**9.0**	11.3	13	--	13	61	--
Barium	**51**	1,500	--	--	5,500	14,000	--
Beryllium	**0.57**	22	--	--	160	410	--
Boron	**1.4 J**	40	--	--	16,000	41,000	--
Calcium	**3,000**	--	--	--	--	--	--
Chromium	**16**	21	--	--	230	690	--
Cobalt	**4.9**	20	--	--	4,700	12,000	--
Copper	**12**	2,900	--	--	2,900	8,200	--
Iron	**19,000 †m**	15,000	15,900	--	--	--	--
Lead	**16**	107	--	--	400	700	--
Magnesium	**2,000**	325,000	--	--	--	730,000	--
Manganese	**290**	630	636	--	1,600	4,100	--
Mercury	**0.033**	0.89	--	--	10	0.1	--
Nickel	**10**	100	--	--	1,600	4,100	--
Potassium	**1,100**	--	--	--	--	--	--
Silver	**0.38**	4.4	--	--	390	1,000	--
Sodium	**1,300**	--	--	--	--	--	--
Thallium	**0.50 J**	2.6	--	--	6.3	160	--
Vanadium	**30**	550	--	--	550	1,400	--
Zinc	**45**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	**0.18 J**	--	--	--	--	--	2
Chromium	**0.014 J**	--	--	--	--	--	0.1
Iron	**0.32 J**	--	--	--	--	--	5
Nickel	**0.015 J**	--	--	--	--	--	0.1
SPLP Metals (Not Analyzed)							

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-31 (Parking Lot)						Comparison Criteria					
BORING	3530-31-B01				3530-31-B02		MACs			TACO		
SAMPLE	3530-31-B01 (0-5)	3530-31-B01 (0-5)D	3530-31-B01 (5-10)	3530-31-B01 (10-15)	3530-31-B02 (0-6)	3530-31-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	0-5	5-10	10-15	0-6	6-12						
pH	5.1#	5.0#	6.6	7.6	4.3#	6.1#						
PID (meter units)	--	--	--	0.5 - 24.5**	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)												
Acetone	ND U	ND U	0.011 J	0.0082 J	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (None Detected)												
Inorganics (mg/kg)												
Antimony	0.77 J	0.80 J	0.41 J	0.91 J	0.76 J	0.68 J	5	--	--	31	82	--
Arsenic	7.9	7.9	3.0	6.3	7.3	4.7	11.3	13	--	13	61	--
Barium	900 J	370 J	71	79	260	76	1,500	--	--	5,500	14,000	--
Beryllium	0.71	0.71	0.61	0.94	0.69	0.66	22	--	--	160	410	--
Boron	2.6 J	2.5 J	0.81 J	ND U	3.2	1.9 J	40	--	--	16,000	41,000	--
Calcium	910	850	890	1,200	1,400	1,100	--	--	--	--	--	--
Chromium	20	19	14	17	20	18	21	--	--	230	690	--
Cobalt	7.3	7.7	4.6	10	6.8	4.9	20	--	--	4,700	12,000	--
Copper	18	17	7.2	8.0	16	7.3	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	20,000 †m	12,000	19,000 †m	20,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	13	14	9.0	13	14	8.2	107	--	--	400	700	--
Magnesium	3,100	3,000	1,800	1,500	2,700	1,900	325,000	--	--	--	730,000	--
Manganese	250	280	150	370	290	250	630	636	--	1,600	4,100	--
Mercury	ND U	0.0075 J	0.041	0.017 J	0.0086 J	0.029	0.89	--	--	10	0.1	--
Nickel	17	17	11	15	16	12	100	--	--	1,600	4,100	--
Potassium	1,200	1,200	470	570	1,300	560	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	0.52 J	ND U	1.3	--	--	390	1,000	--
Silver	0.41	0.44	0.36	0.47	0.42	0.33	4.4	--	--	390	1,000	--
Sodium	180	160	110	140	560	270	--	--	--	--	--	--
Thallium	1.0	1.0	0.48 J	0.87	0.96	0.69	2.6	--	--	6.3	160	--
Vanadium	34	34	26	30	34	32	550	--	--	550	1,400	--
Zinc	68	67	28	27	62	27	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)												
Barium	0.77	0.84	0.46 J	0.57	0.68	0.28 J	--	--	--	--	--	2
Boron	0.16 J	0.061 J	0.18 J	0.11 J	0.12 J	0.18 J	--	--	--	--	--	2
Cobalt	0.017 J	0.018 J	ND U	0.052	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	0.66	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.0094 L	ND U	ND U	--	--	--	--	--	0.0075
Nickel	0.033	0.033	0.013 J	0.030	0.015 J	ND U	--	--	--	--	--	0.1
Zinc	0.050 J	0.042 J	0.035 J	ND U	0.033 J	0.067 J	--	--	--	--	--	5
SPLP Metals (mg/L)												
Lead	NA	NA	NA	0.041 L	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-34 (Loos Law Office)	Comparison Criteria					
BORING	3530-34-B01	MACs			TACO		
SAMPLE	3530-34-B01 (0-3)						
MATRIX	Soil						
DEPTH (feet)	0-3						
pH	6.1#	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (None Detected)							
Inorganics (mg/kg)							
Antimony	**0.74 J**	5	--	--	31	82	--
Arsenic	**14 †mr**	11.3	13	--	13	61	--
Barium	**230**	1,500	--	--	5,500	14,000	--
Beryllium	**0.71**	22	--	--	160	410	--
Boron	**1.7 J**	40	--	--	16,000	41,000	--
Calcium	**1,800**	--	--	--	--	--	--
Chromium	**15**	21	--	--	230	690	--
Cobalt	**20**	20	--	--	4,700	12,000	--
Copper	**8.7**	2,900	--	--	2,900	8,200	--
Iron	**20,000 †m**	15,000	15,900	--	--	--	--
Lead	**30**	107	--	--	400	700	--
Magnesium	**1,700**	325,000	--	--	--	730,000	--
Manganese	**3,600 †mr**	630	636	--	1,600	4,100	--
Mercury	**0.084**	0.89	--	--	10	0.1	--
Nickel	**12**	100	--	--	1,600	4,100	--
Potassium	**860**	--	--	--	--	--	--
Selenium	**1.2**	1.3	--	--	390	1,000	--
Sodium	**150**	--	--	--	--	--	--
Vanadium	**44**	550	--	--	550	1,400	--
Zinc	**36**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	**0.45 J**	--	--	--	--	--	2
Iron	**0.56**	--	--	--	--	--	5
Manganese	NA	--	--	--	--	--	0.15
Zinc	**0.021 J**	--	--	--	--	--	5
SPLP Metals (Not Analyzed)							

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-35 (McDonald's)				Comparison Criteria					
BORING	3530-35-B01		3530-35-B02		MACs			TACO		
SAMPLE	3530-35-B01 (0-6)	3530-35-B01 (6-12)	3530-35-B02 (0-6)	3530-35-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	7.9	7.4	8.5	7.2						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	**0.25 J**	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	ND U	ND U	**0.069 J**	ND U	0.4	--	--	780	1200	--
Ethylbenzene	ND U	ND U	**0.023**	ND U	13	--	--	400	58	--
Tetrachloroethene	**0.0039**	ND U	**7.1 †**	**0.00078 J**	0.06	--	--	11	28	--
Toluene	ND U	ND U	**0.033**	ND U	12	--	--	650	42	--
trans-1,2-Dichloroethene	ND U	ND U	**0.037 J**	ND U	0.7	--	--	1600	3100	--
Trichloroethene	ND U	ND U	**0.16 †**	ND U	0.06	--	--	5	12	--
Xylenes, Total	ND U	ND U	**0.081**	ND U	5.6	--	--	320	5.6	--
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.060 J**	ND U	**0.069 J**	ND U	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ND U	ND U	**0.059 J**	ND U	1.3	--	--	1	280	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	**0.075**	ND U	**0.061**	ND U	--	--	--	--	--	--
Anthracene	**0.056**	ND U	**0.059**	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.22**	ND U	**0.19**	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.21 †**	ND U	**0.24 †**	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.35**	ND U	**0.35**	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.12**	ND U	**0.080**	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.13**	ND U	**0.19**	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	**0.16 J**	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.30**	ND U	**0.31**	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	**0.026 J**	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	**0.056 J**	ND U	**0.098 J**	ND U	--	--	--	--	--	--
Fluoranthene	**0.45**	ND U	**0.60**	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	**0.021 J**	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.095**	ND U	**0.086**	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	**0.032 J**	ND U	**0.051**	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.29**	ND U	**0.68**	ND U	--	--	--	--	--	--
Pyrene	**0.47**	ND U	**0.45**	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**1.0 J**	**0.58 J**	**0.83 J**	**0.31 J**	5	--	--	31	82	--
Arsenic	**9.3**	**2.0**	**8.2**	**2.8**	11.3	13	--	13	61	--
Barium	**220**	**38**	**230**	**32**	1,500	--	--	5,500	14,000	--
Beryllium	**1.1**	**0.66**	**0.66**	**0.50**	22	--	--	160	410	--
Boron	**49 †**	**1.4 J**	**12**	**1.2 J**	40	--	--	16,000	41,000	--
Cadmium	**1.1**	ND U	**0.87**	ND U	5.2	--	--	78	200	--
Calcium	**22,000**	**2,100**	**32,000**	**2,800**	--	--	--	--	--	--
Chromium	**15**	**17**	**14**	**12**	21	--	--	230	690	--
Cobalt	**10**	**7.0**	**6.6**	**6.2**	20	--	--	4,700	12,000	--
Copper	**26**	**8.8**	**31**	**8.5**	2,900	--	--	2,900	8,200	--
Iron	**23,000 †m**	**9,500**	**14,000**	**9,700**	15,000	15,900	--	--	--	--
Lead	**200 †**	**9.7**	**290 †**	**30**	107	--	--	400	700	--
Magnesium	**1,600**	**1,300**	**2,000**	**1,700**	325,000	--	--	--	730,000	--
Manganese	**1,200 †m**	**150**	**530**	**160**	630	636	--	1,600	4,100	--
Mercury	**0.90 †**	**0.034**	**1.3 †**	**0.019**	0.89	--	--	10	0.1	--
Nickel	**21**	**13**	**13**	**12**	100	--	--	1,600	4,100	--
Potassium	**1,100**	**690**	**950**	**500**	--	--	--	--	--	--
Selenium	**0.95**	ND U	**0.69**	ND U	1.3	--	--	390	1,000	--
Silver	**0.55**	**0.37**	**0.51**	**0.35**	4.4	--	--	390	1,000	--
Sodium	**680**	**80**	**500**	**84**	--	--	--	--	--	--
Thallium	**2.0**	**0.53 J**	**1.1**	**0.46 J**	2.6	--	--	6.3	160	--
Vanadium	**32**	**29**	**24**	**23**	550	--	--	550	1,400	--
Zinc	**300**	**28**	**310**	**23**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**1.3**	**0.36 J**	**1.6**	**0.43 J**	--	--	--	--	--	2
Boron	**0.50**	**0.40 J**	**0.45 J**	**0.69**	--	--	--	--	--	2
Cadmium	**0.0065 L**	ND U	**0.0065 L**	ND U	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	**0.011 J**	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	**0.013 L**	ND U	**0.27 L**	**0.041 L**	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	ND U	ND U	**0.014 J**	--	--	--	--	--	0.1
Zinc	**0.58**	**0.087 J**	**0.52**	**0.15 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	ND U	NA	ND U	NA	--	--	--	--	--	0.005
Lead	**0.14 L**	NA	**0.52 L**	**0.013 L**	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-35 (McDonald's)				Comparison Criteria					
BORING	3530-35-B03			3530-35-B04	MACs			TACO		
SAMPLE	3530-35-B03 (0-6)	3530-35-B03 (6-12)	3530-35-B03 (6-12)D	3530-35-B04 (0-4)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	6-12	0-4						
pH	8.2	7.1	7.2	7.4						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	**0.017 J**	ND U	ND U	ND U	25	--	--	70,000	100,000	--
cis-1,2-Dichloroethene	**0.0010 J**	ND U	ND U	ND U	0.4	--	--	780	1200	--
Ethylbenzene	ND U	ND U	ND U	ND U	13	--	--	400	58	--
Tetrachloroethene	**0.0018**	ND U	ND U	ND U	0.06	--	--	11	28	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
trans-1,2-Dichloroethene	ND U	ND U	ND U	ND U	0.7	--	--	1600	3100	--
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--
Xylenes, Total	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.11**	ND U	ND U	ND U	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ND U	ND U	ND U	ND U	1.3	--	--	1	280	--
Acenaphthene	**0.061**	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	**0.076**	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	**0.13**	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.44**	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.39 †**	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.34**	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.12**	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.47**	ND U	ND U	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.57**	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.047**	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	**0.11 J**	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**1.3**	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	**0.12**	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.13**	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	**0.058**	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.94**	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	**0.97**	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**1.1 J**	**1.2**	**1.1 J**	**0.73 J**	5	--	--	31	82	--
Arsenic	**12 J †**	**9.6**	**11**	**11**	11.3	13	--	13	61	--
Barium	**240 J**	**35**	**61**	**59**	1,500	--	--	5,500	14,000	--
Beryllium	**0.92**	**0.98**	**1.0**	**0.63**	22	--	--	160	410	--
Boron	**25 J**	**1.2 J**	**1.2 J**	**0.69 J**	40	--	--	16,000	41,000	--
Cadmium	**1.4**	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**13,000 J**	**1,700**	**1,700**	**4,100**	--	--	--	--	--	--
Chromium	**14**	**18**	**17**	**17**	21	--	--	230	690	--
Cobalt	**8.8**	**15**	**17**	**4.9**	20	--	--	4,700	12,000	--
Copper	**39 J**	**11**	**14**	**16**	2,900	--	--	2,900	8,200	--
Iron	**22,000 J †m**	**29,000 †m**	**36,000 †m**	**23,000 †m**	15,000	15,900	--	--	--	--
Lead	**250 †**	**14**	**15**	**16**	107	--	--	400	700	--
Magnesium	**1,500 J**	**1,700**	**1,700**	**2,300**	325,000	--	--	--	730,000	--
Manganese	**790 J †m**	**230**	**260**	**170**	630	636	--	1,600	4,100	--
Mercury	**1.4 †**	**0.025**	**0.027**	**0.073**	0.89	--	--	10	0.1	--
Nickel	**17**	**16**	**18**	**12**	100	--	--	1,600	4,100	--
Potassium	**1,100 J**	**710**	**760**	**900**	--	--	--	--	--	--
Selenium	**1.1 J**	ND U	ND U	**0.43 J**	1.3	--	--	390	1,000	--
Silver	**0.83**	**0.36**	**0.40**	**0.37**	4.4	--	--	390	1,000	--
Sodium	**410**	**120**	**120**	**63**	--	--	--	--	--	--
Thallium	**1.8 J**	**0.86**	ND U	**0.38 J**	2.6	--	--	6.3	160	--
Vanadium	**29**	**32**	**39**	**25**	550	--	--	550	1,400	--
Zinc	**470 J**	**34**	**35**	**55**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**1.1**	**0.24 J**	**0.42 J**	**0.27 J**	--	--	--	--	--	2
Boron	**0.53**	**0.29 J**	**0.44 J**	ND U	--	--	--	--	--	2
Cadmium	**0.0070 L**	ND U	ND U	**0.0030 J**	--	--	--	--	--	0.005
Cobalt	**0.039**	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	**0.30 J**	**0.23 J**	--	--	--	--	--	5
Lead	**0.034 L**	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	**0.031**	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	**2.1**	**0.061 J**	**0.095 J**	**0.044 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	ND U	NA	NA	NA	--	--	--	--	--	0.005
Lead	**0.24 L**	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-37 (Vacant Lot)				Comparison Criteria					
BORING	3530-37-B01		3530-37-B02		MACs			TACO		
SAMPLE	3530-37-B01 (0-6)	3530-37-B01 (6-12)	3530-37-B02 (0-6)	3530-37-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.3	7.6	5.1#	5.6#						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)										
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.016 J**	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(a)anthracene	**0.0094 J**	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.012 J**	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.019 J**	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Chrysene	**0.018 J**	ND U	ND U	ND U	88	--	--	88	17,000	--
Fluoranthene	**0.018 J**	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Naphthalene	**0.0074 J**	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.035 J**	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	**0.019 J**	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.37 J**	**0.72 J**	**0.57 J**	**0.79 J**	5	--	--	31	82	--
Arsenic	**4.7**	**6.2**	**13** †	**4.9**	11.3	13	--	13	61	--
Barium	**120**	**64**	**60**	**88**	1,500	--	--	5,500	14,000	--
Beryllium	**0.63**	**0.76**	**0.59**	**0.67**	22	--	--	160	410	--
Boron	**4.2**	**1.1 J**	**3.0 J**	**1.8 J**	40	--	--	16,000	41,000	--
Cadmium	**0.10 J**	ND U	ND U	**0.027 J**	5.2	--	--	78	200	--
Calcium	**59,000**	**1,900**	**1,500**	**1,300**	--	--	--	--	--	--
Chromium	**14**	**17**	**16**	**16**	21	--	--	230	690	--
Cobalt	**16**	**8.1**	**8.8**	**12**	20	--	--	4,700	12,000	--
Copper	**12**	**9.0**	**8.5**	**8.5**	2,900	--	--	2,900	8,200	--
Iron	**12,000**	**16,000** †m	**17,000** †m	**15,000**	15,000	15,900	--	--	--	--
Lead	**78**	**10**	**26**	**12**	107	--	--	400	700	--
Magnesium	**3,800**	**1,400**	**1,900**	**1,600**	325,000	--	--	--	730,000	--
Manganese	**280**	**360**	**420**	**470**	630	636	--	1,600	4,100	--
Mercury	**0.58**	**0.036**	**0.11**	**0.064**	0.89	--	--	10	0.1	--
Nickel	**15**	**14**	**12**	**20**	100	--	--	1,600	4,100	--
Potassium	**920**	**590**	**1,200**	**670**	--	--	--	--	--	--
Selenium	ND U	ND U	**0.62 J**	ND U	1.3	--	--	390	1,000	--
Silver	**0.69**	**0.33**	**0.38**	**0.31**	4.4	--	--	390	1,000	--
Sodium	**110**	**58**	**87**	**88**	--	--	--	--	--	--
Thallium	**0.79**	**1.0**	**1.2**	**0.95**	2.6	--	--	6.3	160	--
Vanadium	**24**	**31**	**35**	**27**	550	--	--	550	1,400	--
Zinc	**70**	**33**	**45**	**31**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**1.7**	**0.35 J**	**0.36 J**	**0.43 J**	--	--	--	--	--	2
Boron	**0.11 J**	**0.14 J**	**0.20 J**	**0.23 J**	--	--	--	--	--	2
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Nickel	**0.016 J**	ND U	**0.011 J**	**0.042**	--	--	--	--	--	0.1
Zinc	**0.11 J**	**0.021 J**	**0.029 J**	ND U	--	--	--	--	--	5
SPLP Metals (Not Anayzed)										

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-39 (Vacant Lot)					Comparison Criteria					
BORING	3530-39-B01			3530-39-B02		MACs			TACO		
SAMPLE	3530-39-B01 (0-5)	3530-39-B01 (5-10)	3530-39-B01 (10-15)	3530-39-B02 (0-6)	3530-39-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	10-15	0-6	6-12						
pH	4.8#	5.8#	6.9	4.3#	5.6#						
PID (meter units)	--	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)											
SVOCs (mg/kg)											
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Fluoranthene	ND U	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)											
Antimony	**0.74 J**	**0.48 J**	**0.53 J**	**1.3**	**0.40 J**	5	--	--	31	82	--
Arsenic	**8.7 J**	**3.3**	**4.2**	**13 †**	**3.1**	11.3	13	--	13	61	--
Barium	**110 J**	**36**	**38**	**74**	**86**	1,500	--	--	5,500	14,000	--
Beryllium	**0.67**	**0.75**	**0.69**	**0.75**	**0.62**	22	--	--	160	410	--
Boron	**2.8 J**	**1.1 J**	**0.91 J**	**4.4**	**1.7 J**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**1,000**	**1,000**	**1,100**	**2,200**	**1,000**	--	--	--	--	--	--
Chromium	**18**	**16**	**16**	**24 †**	**15**	21	--	--	230	690	--
Cobalt	**8.9**	**7.4**	**3.4**	**5.6**	**3.9**	20	--	--	4,700	12,000	--
Copper	**12**	**7.6**	**6.8**	**18**	**6.2**	2,900	--	--	2,900	8,200	--
Iron	**20,000 †m**	**12,000**	**15,000**	**28,000 †m**	**12,000**	15,000	15,900	--	--	--	--
Lead	**15 J**	**8.2**	**8.6**	**21**	**7.1**	107	--	--	400	700	--
Magnesium	**2,000 J**	**1,700**	**1,800**	**3,500**	**1,700**	325,000	--	--	--	730,000	--
Manganese	**1,100 J †m**	**640 †m**	**110**	**220**	**160**	630	636	--	1,600	4,100	--
Mercury	**0.033**	ND U	**0.026**	**0.018 J**	**0.018 J**	0.89	--	--	10	0.1	--
Nickel	**12**	**36**	**10**	**16**	**18**	100	--	--	1,600	4,100	--
Potassium	**980 J**	**500**	**520**	**1,600**	**500**	--	--	--	--	--	--
Selenium	**0.42 J**	ND U	ND U	**0.49 J**	ND U	1.3	--	--	390	1,000	--
Silver	**0.23 J**	**0.53**	**0.33**	**0.32**	**0.37**	4.4	--	--	390	1,000	--
Sodium	**46 J**	**120**	**170**	**55 J**	**200**	--	--	--	--	--	--
Thallium	**2.0 J**	**1.2**	**0.49 J**	**1.2**	**0.54 J**	2.6	--	--	6.3	160	--
Vanadium	**35**	**22**	**27**	**44**	**25**	550	--	--	550	1,400	--
Zinc	**47**	**41**	**25**	**74**	**27**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)											
Barium	**0.19 J**	**0.34 J**	**0.26 J**	**0.16 J**	**0.24 J**	--	--	--	--	--	2
Boron	**0.051 J**	**0.22 J**	**0.15 J**	**0.37 J**	**0.31 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	**1.0**	**0.23 J**	**0.84**	**2.9**	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	**0.010 L**	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	--	--	--	--	--	0.15
Nickel	**0.011 J**	**0.066**	ND U	ND U	**0.043**	--	--	--	--	--	0.1
Zinc	**0.032 J**	**0.13 J**	**0.047 J**	**0.13 J**	**0.079 J**	--	--	--	--	--	5
SPLP Metals (mg/L)											
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	ND U	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018

CONTAMINANTS OF CONCERN

SITE	ISGS #3530-39 (Vacant Lot)				Comparison Criteria					
BORING	3530-39-B03		3530-39-B04		MACs			TACO		
SAMPLE	3530-39-B03 (0-6)	3530-39-B03 (6-12)	3530-39-B04 (0-6)	3530-39-B04 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	7.4	6.5	7.6	7.2						
PID (meter units)	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)										
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.0093 J**	ND U	**0.023 J**	**0.011 J**	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	**0.0074 J**	**0.0056 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	**0.012 J**	**0.0067 J**	1.8	--	--	170	1.8	--
Phenanthrene	**0.0096 J**	ND U	**0.017 J**	**0.0080 J**	--	--	--	--	--	--
Pyrene	ND U	ND U	**0.0080 J**	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	**0.77 J**	**0.86 J**	**0.77 J**	**0.64 J**	5	--	--	31	82	--
Arsenic	**8.7**	**6.3**	**7.7**	**5.0**	11.3	13	--	13	61	--
Barium	**94**	**54**	**84**	**74**	1,500	--	--	5,500	14,000	--
Beryllium	**0.77**	**0.89**	**0.77**	**0.74**	22	--	--	160	410	--
Boron	**1.6 J**	**1.8 J**	**1.8 J**	**4.0**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**11,000**	**1,500**	**9,700**	**6,700**	--	--	--	--	--	--
Chromium	**17**	**17**	**15**	**16**	21	--	--	230	690	--
Cobalt	**11**	**13**	**8.9**	**8.5**	20	--	--	4,700	12,000	--
Copper	**13**	**8.4**	**13**	**11**	2,900	--	--	2,900	8,200	--
Iron	**19,000 †m**	**21,000 †m**	**19,000 †m**	**15,000**	15,000	15,900	--	--	--	--
Lead	**12**	**13**	**11**	**9.8**	107	--	--	400	700	--
Magnesium	**4,200**	**1,600**	**3,300**	**2,800**	325,000	--	--	--	730,000	--
Manganese	**480**	**500**	**420**	**330**	630	636	--	1,600	4,100	--
Mercury	**0.023**	**0.022**	**0.031**	**0.025**	0.89	--	--	10	0.1	--
Nickel	**22**	**14**	**24**	**25**	100	--	--	1,600	4,100	--
Potassium	**860**	**640**	**890**	**820**	--	--	--	--	--	--
Selenium	**0.82**	ND U	**0.80**	**0.40 J**	1.3	--	--	390	1,000	--
Silver	**0.34**	**0.36**	**0.36**	**0.32**	4.4	--	--	390	1,000	--
Sodium	**50 J**	**110**	**89**	**100**	--	--	--	--	--	--
Thallium	**1.1**	**1.1**	**0.91**	**0.75**	2.6	--	--	6.3	160	--
Vanadium	**26**	**31**	**24**	**25**	550	--	--	550	1,400	--
Zinc	**59**	**27**	**62**	**46**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.26 J**	**0.25 J**	**0.19 J**	**0.17 J**	--	--	--	--	--	2
Boron	**0.10 J**	**0.35 J**	**0.14 J**	**0.22 J**	--	--	--	--	--	2
Cadmium	**0.0032 J**	ND U	**0.0048 J**	**0.0056 L**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	**1.0**	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Nickel	ND U	ND U	ND U	**0.056**	--	--	--	--	--	0.1
Zinc	**0.044 J**	**0.066 J**	**0.032 J**	**0.055 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	ND U	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075

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CONTAMINANTS OF CONCERN

SITE	ISGS #3530-39 (Vacant Lot)					Comparison Criteria					
BORING	3530-39-B05		3530-39-B06			MACs			TACO		
SAMPLE	3530-39-B05 (0-6)	3530-39-B05 (6-12)	3530-39-B06 (0-6)	3530-39-B06 (0-6)D	3530-39-B06 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	0-6	6-12						
pH	7.2	5.9#	7.4	7.1	6.3						
PID (meter units)	--	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)											
SVOCs (mg/kg)											
2-Methylnaphthalene	ND U	ND U	**0.033 J**	**0.029 J**	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	**0.0079 J**	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	**0.0088 J**	**0.050**	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	**0.043**	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	**0.055**	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	**0.026 J**	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	**0.023 J**	ND U	9	--	--	9	1,700	--
Chrysene	ND U	ND U	ND U	**0.050**	ND U	88	--	--	88	17,000	--
Fluoranthene	ND U	ND U	**0.0093 J**	**0.11**	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	**0.019 J**	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	**0.052**	**0.012 J**	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.015 J**	ND U	**0.034 J**	**0.041**	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	**0.014 J**	**0.098**	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)											
Antimony	**0.50 J**	**0.47 J**	**0.74 J**	**0.84 J**	**0.60 J**	5	--	--	31	82	--
Arsenic	**9.0**	**4.2**	**7.3**	**8.7**	**3.8**	11.3	13	--	13	61	--
Barium	**100**	**150**	**93**	**85**	**91**	1,500	--	--	5,500	14,000	--
Beryllium	**0.71**	**0.80**	**0.80**	**0.79**	**0.75**	22	--	--	160	410	--
Boron	**5.9**	**3.7**	**2.7 J**	**2.2 J**	**0.53 J**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	**0.49**	**0.46**	ND U	5.2	--	--	78	200	--
Calcium	**1,900**	**1,600**	**8,500**	**16,000**	**900**	--	--	--	--	--	--
Chromium	**14**	**17**	**17**	**16**	**17**	21	--	--	230	690	--
Cobalt	**9.3**	**14**	**9.4**	**10**	**5.6**	20	--	--	4,700	12,000	--
Copper	**6.6**	**8.8**	**14**	**14**	**7.4**	2,900	--	--	2,900	8,200	--
Iron	**17,000 †m**	**15,000**	**20,000 †m**	**20,000 †m**	**15,000**	15,000	15,900	--	--	--	--
Lead	**19**	**12**	**14**	**16**	**11**	107	--	--	400	700	--
Magnesium	**1,400**	**1,800**	**3,800**	**4,600**	**1,900**	325,000	--	--	--	730,000	--
Manganese	**1,200 †m**	**1,100 †m**	**430**	**580**	**160**	630	636	--	1,600	4,100	--
Mercury	**0.080**	**0.032**	**0.034**	**0.034**	**0.036**	0.89	--	--	10	0.1	--
Nickel	**9.4**	**24**	**24**	**26**	**11**	100	--	--	1,600	4,100	--
Potassium	**910**	**570**	**1,100**	**1,000**	**680**	--	--	--	--	--	--
Selenium	**0.57 J**	ND U	**1.2**	**1.1**	ND U	1.3	--	--	390	1,000	--
Silver	**0.17 J**	**0.43**	**0.36**	**0.33**	**0.42**	4.4	--	--	390	1,000	--
Sodium	**68**	**65**	**100**	**96**	**99**	--	--	--	--	--	--
Thallium	**2.2**	**2.0**	**1.2**	**1.2**	**0.66**	2.6	--	--	6.3	160	--
Vanadium	**33**	**31**	**27**	**24**	**29**	550	--	--	550	1,400	--
Zinc	**34**	**31**	**69**	**76**	**25**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)											
Barium	**0.30 J**	**0.31 J**	**0.16 J**	**0.14 J**	**0.40 J**	--	--	--	--	--	2
Boron	**0.42 J**	**0.26 J**	**0.23 J**	**0.085 J**	**0.32 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	**0.013 L**	**0.0039 J**	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	**0.20 J**	ND U	ND U	ND U	**1.5**	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	--	--	--	--	--	0.15
Nickel	ND U	**0.012 J**	**0.015 J**	ND U	ND U	--	--	--	--	--	0.1
Zinc	**0.049 J**	**0.043 J**	**0.079 J**	**0.027 J**	**0.066 J**	--	--	--	--	--	5
SPLP Metals (mg/L)											
Cadmium	NA	NA	ND U	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-40 (Perry County Jail and Sheriff's Office)			Comparison Criteria					
BORING	3530-40-B01			MACs			TACO		
SAMPLE	3530-40-B01 (0-5)	3530-40-B01 (5-10)	3530-40-B01 (10-15)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	10-15						
pH	6.3	6.6	6.8						
PID (meter units)	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)									
SVOCs (None Detected)									
Inorganics (mg/kg)									
Antimony	**0.69 J**	ND U	**0.59 J**	5	--	--	31	82	--
Arsenic	**9.3**	**3.5**	**5.7**	11.3	13	--	13	61	--
Barium	**86 J**	**92**	**170**	1,500	--	--	5,500	14,000	--
Beryllium	**0.74**	**0.61**	**0.84**	22	--	--	160	410	--
Boron	**3.4 J**	**2.0 J**	**0.97 J**	40	--	--	16,000	41,000	--
Cadmium	**0.38 J**	ND U	ND U	5.2	--	--	78	200	--
Calcium	**2,600**	**1,200**	**1,200**	--	--	--	--	--	--
Chromium	**18 J**	**15**	**12**	21	--	--	230	690	--
Cobalt	**8.6 J**	**4.4**	**28 †**	20	--	--	4,700	12,000	--
Copper	**18**	**6.6**	**10**	2,900	--	--	2,900	8,200	--
Iron	**21,000 †m**	**13,000**	**18,000 †m**	15,000	15,900	--	--	--	--
Lead	**39 J**	**7.9**	**20**	107	--	--	400	700	--
Magnesium	**2,400 J**	**1,700**	**1,400**	325,000	--	--	--	730,000	--
Manganese	**740 J †m**	**160**	**4,300 †mrc**	630	636	--	1,600	4,100	--
Mercury	**0.14**	**0.028**	**0.018 J**	0.89	--	--	10	0.1	--
Nickel	**13**	**17**	**30**	100	--	--	1,600	4,100	--
Potassium	**1,200 J**	**500**	**660**	--	--	--	--	--	--
Selenium	**0.54 J**	ND U	**0.41 J**	1.3	--	--	390	1,000	--
Silver	**0.55 J**	**0.43**	ND U	4.4	--	--	390	1,000	--
Sodium	**160 J**	**160**	**190**	--	--	--	--	--	--
Thallium	ND U	**0.40 J**	ND U	2.6	--	--	6.3	160	--
Vanadium	**33 J**	**27**	**23**	550	--	--	550	1,400	--
Zinc	**440 J**	**45**	**36**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	**0.50**	**0.49 J**	**0.37 J**	--	--	--	--	--	2
Boron	**0.051 J**	ND U	**0.056 J**	--	--	--	--	--	2
Cadmium	**0.0021 J**	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	**0.29 J**	ND U	ND U	--	--	--	--	--	5
Manganese	NA	NA	NA	--	--	--	--	--	0.15
Nickel	ND U	**0.030**	ND U	--	--	--	--	--	0.1
Zinc	**0.67**	**0.061 J**	ND U	--	--	--	--	--	5
SPLP Metals (Not Analyzed)									

PTB #172-27; Work Order 93 - IDOT Job # D-99-011-018
CONTAMINANTS OF CONCERN

SITE	ISGS #3530-47 (Dairy Queen)	Comparison Criteria					
BORING	3530-47-B01	MACs			TACO		
SAMPLE	3530-47-B01 (0-3)						
MATRIX	Soil						
DEPTH (feet)	0-3						
pH	8.0	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (mg/kg)							
Phenanthrene	**0.0073 J**	--	--	--	--	--	--
Inorganics (mg/kg)							
Antimony	**0.35 J**	5	--	--	31	82	--
Arsenic	**7.8**	11.3	13	--	13	61	--
Barium	**71**	1,500	--	--	5,500	14,000	--
Beryllium	**0.54**	22	--	--	160	410	--
Boron	**1.6 J**	40	--	--	16,000	41,000	--
Calcium	**1,900**	--	--	--	--	--	--
Chromium	**13**	21	--	--	230	690	--
Cobalt	**10**	20	--	--	4,700	12,000	--
Copper	**7.2**	2,900	--	--	2,900	8,200	--
Iron	**15,000**	15,000	15,900	--	--	--	--
Lead	**23**	107	--	--	400	700	--
Magnesium	**1,600**	325,000	--	--	--	730,000	--
Manganese	**860 †m**	630	636	--	1,600	4,100	--
Mercury	**0.081 J**	0.89	--	--	10	0.1	--
Nickel	**9.5**	100	--	--	1,600	4,100	--
Potassium	**820**	--	--	--	--	--	--
Silver	**0.34**	4.4	--	--	390	1,000	--
Sodium	**130**	--	--	--	--	--	--
Thallium	**0.54 J**	2.6	--	--	6.3	160	--
Vanadium	**27**	550	--	--	550	1,400	--
Zinc	**30**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	**0.16 J**	--	--	--	--	--	2
Chromium	**0.14 L**	--	--	--	--	--	0.1
Iron	**0.91**	--	--	--	--	--	5
Manganese	NA	--	--	--	--	--	0.15
Nickel	**0.19 L**	--	--	--	--	--	0.1
SPLP Metals (mg/L)							
Chromium	**0.068**	--	--	--	--	--	0.1
Nickel	**0.040**	--	--	--	--	--	0.1

APPENDIX

D LABORATORY DATA PACKAGES AND SITE PHOTOGRAPHS

DATA REVIEW MEMORANDUM

DATE: May 28, 2021

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

FROM: Shawn Kowal, Chemist, E & E, Buffalo

SUBJ: Data Review – IDOT - 172-027 - WO 093

REFERENCE:

I. SAMPLE IDENTIFICATION

For the sampling activities for the IDOT - 172-027 - WO 093 project, WSP USA collected the samples listed on Table 1. The samples were analyzed for the methods listed below. Matrix spike/matrix spike duplicates (MS/MSD) were not designated in the field. Samples noted as MS/MSD on Table 1 are provided as batch quality control (QC) MS/MSD. All samples were sent to Eurofins/TestAmerica Laboratory – Chicago, IL for analysis. All other tables are included at the end of this memorandum.

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

Project ID	Lab Work Order
IDOT - 172-027 - WO 93	500-198105-1
IDOT - 172-027 - WO 93	500-198106-1
IDOT - 172-027 - WO 93	500-198107-1
IDOT - 172-027 - WO 93	500-198108-1
IDOT - 172-027 - WO 93	500-198109-1
IDOT - 172-027 - WO 93	500-198110-1
IDOT - 172-027 - WO 93	500-198111-1
IDOT - 172-027 - WO 93	500-198578-1
IDOT - 172-027 - WO 93	500-198579-1
IDOT - 172-027 - WO 93	500-198664-1
IDOT - 172-027 - WO 93	500-198666-1
IDOT - 172-027 - WO 93	500-198668-1
IDOT - 172-027 - WO 93	500-198673-1

Table 1 Sample Listing

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-198105-1	Solid	3530-15-B01 (0-3)	500-198105-1	4/22/2021			None
500-198106-1	Solid	3530-18-B01 (0-3)	500-198106-1	4/22/2021			None
500-198107-1	Solid	3530-29-B01 (0-2)	500-198107-1	4/22/2021			None
500-198108-1	Solid	3530-30-B01 (0-2)	500-198108-1	4/22/2021			None
500-198109-1	Solid	3530-35-B04 (0-4)	500-198109-1	4/22/2021	MS/ MSD		None
500-198110-1	Solid	3530-40-B01 (0-5)	500-198110-1	4/22/2021	MS/ MSD		None
500-198110-1	Solid	3530-40-B01 (5-10)	500-198110-2	4/22/2021			None
500-198110-1	Solid	3530-40-B01 (10-15)	500-198110-3	4/22/2021			None
500-198111-1	Solid	3530-47-B01 (0-3)	500-198111-1	4/22/2021	MS/ MSD		None
500-198578-1	Solid	3530-31-B01 (0-5)	500-198578-1	5/3/2021			None
500-198578-1	Solid	3530-31-B01 (0-5)D	500-198578-2	5/3/2021	MS/ MSD		None
500-198578-1	Solid	3530-31-B01 (5-10)	500-198578-3	5/3/2021			None
500-198578-1	Solid	3530-31-B01 (10-15)	500-198578-4	5/3/2021			None
500-198578-1	Solid	3530-31-B02 (0-6)	500-198578-5	5/3/2021	MS/ MSD		None
500-198578-1	Solid	3530-31-B02 (6-12)	500-198578-6	5/3/2021			None
500-198579-1	Solid	3530-37-B01 (0-6)	500-198579-1	5/3/2021			None
500-198579-1	Solid	3530-37-B01 (6-12)	500-198579-2	5/3/2021			None
500-198579-1	Solid	3530-37-B02 (0-6)	500-198579-3	5/3/2021	MS/ MSD		None
500-198579-1	Solid	3530-37-B02 (6-12)	500-198579-4	5/3/2021	MS/ MSD		None
500-198664-1	Solid	3530-35-B03 (0-6)	500-198664-1	5/4/2021	MS/ MSD		None
500-198664-1	Solid	3530-35-B03 (6-12)	500-198664-2	5/4/2021			None
500-198664-1	Solid	3530-35-B03 (6-12)D	500-198664-3	5/4/2021			None
500-198664-1	Solid	3530-35-B02 (0-6)	500-198664-4	5/4/2021			None
500-198664-1	Solid	3530-35-B02 (6-12)	500-198664-5	5/4/2021	MS/ MSD		None
500-198664-1	Solid	3530-35-B01 (0-6)	500-198664-6	5/4/2021			None
500-198664-1	Solid	3530-35-B01 (6-12)	500-198664-7	5/4/2021	MS/ MSD		None
500-198666-1	Solid	3530-34-B01 (0-3)	500-198666-1	5/4/2021			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-198668-1	Solid	3530-16-B01 (0-6)	500-198668-1	5/4/2021	MS/ MSD		None
500-198668-1	Solid	3530-16-B08 (6-12)	500-198668-10	5/4/2021	MS/ MSD		None
500-198668-1	Solid	3530-16-B07 (0-6)	500-198668-11	5/4/2021			None
500-198668-1	Solid	3530-16-B07 (6-12)	500-198668-12	5/4/2021			None
500-198668-1	Solid	3530-16-B06 (0-6)	500-198668-13	5/4/2021			None
500-198668-1	Solid	3530-16-B06 (6-12)	500-198668-14	5/4/2021			None
500-198668-1	Solid	3530-16-B05 (0-6)	500-198668-15	5/4/2021			None
500-198668-1	Solid	3530-16-B05 (6-12)	500-198668-16	5/4/2021			None
500-198668-1	Solid	3530-16-B04 (0-6)	500-198668-17	5/4/2021			None
500-198668-1	Solid	3530-16-B04 (6-12)	500-198668-18	5/4/2021			None
500-198668-1	Solid	3530-16-B03 (0-6)	500-198668-19	5/4/2021			None
500-198668-1	Solid	3530-16-B01 (6-12)	500-198668-2	5/4/2021			None
500-198668-1	Solid	3530-16-B03 (6-12)	500-198668-20	5/4/2021	MS/ MSD		None
500-198668-1	Solid	3530-16-B10 (0-6)	500-198668-3	5/4/2021			None
500-198668-1	Solid	3530-16-B10 (6-12)	500-198668-4	5/4/2021			None
500-198668-1	Solid	3530-16-B02 (0-6)	500-198668-5	5/4/2021	MS/ MSD		None
500-198668-1	Solid	3530-16-B02 (6-12)	500-198668-6	5/4/2021			None
500-198668-1	Solid	3530-16-B09 (0-6)	500-198668-7	5/4/2021			None
500-198668-1	Solid	3530-16-B09 (6-12)	500-198668-8	5/4/2021			None
500-198668-1	Solid	3530-16-B08 (0-6)	500-198668-9	5/4/2021			None
500-198673-1	Solid	3530-39-B01 (0-5)	500-198673-1	5/4/2021	MS/ MSD		None
500-198673-1	Solid	3530-39-B03 (6-12)	500-198673-10	5/4/2021			None
500-198673-1	Solid	3530-39-B04 (0-6)	500-198673-11	5/4/2021			None
500-198673-1	Solid	3530-39-B04 (6-12)	500-198673-12	5/4/2021			None
500-198673-1	Solid	3530-39-B05 (0-6)	500-198673-13	5/4/2021			None
500-198673-1	Solid	3530-39-B05 (6-12)	500-198673-14	5/4/2021			None
500-198673-1	Solid	3530-39-B01 (5-10)	500-198673-2	5/4/2021			None
500-198673-1	Solid	3530-39-B01 (10-15)	500-198673-3	5/4/2021			None
500-198673-1	Solid	3530-39-B06 (0-6)	500-198673-4	5/4/2021			None
500-198673-1	Solid	3530-39-B06 (0-6)D	500-198673-5	5/4/2021	MS/ MSD		None
500-198673-1	Solid	3530-39-B06 (6-12)	500-198673-6	5/4/2021			None
500-198673-1	Solid	3530-39-B02 (0-6)	500-198673-7	5/4/2021			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-198673-1	Solid	3530-39-B02 (6-12)	500-198673-8	5/4/2021	MS/ MSD		None
500-198673-1	Solid	3530-39-B03 (0-6)	500-198673-9	5/4/2021			None

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-198105-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198105-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198105-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198105-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198105-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198105-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198105-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198105-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198105-1	Solid	SW9045D	pH	1	SAMP
500-198106-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198106-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198106-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-198106-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198106-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198106-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198106-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198106-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198106-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198106-1	Solid	SW9045D	pH	1	SAMP
500-198107-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198107-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198107-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198107-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198107-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198107-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198107-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198107-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198107-1	Solid	SW9045D	pH	1	SAMP
500-198108-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198108-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198108-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198108-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198108-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198108-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198108-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-198108-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198108-1	Solid	SW9045D	pH	1	SAMP
500-198109-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198109-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198109-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198109-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198109-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198109-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198109-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198109-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198109-1	Solid	SW9045D	pH	1	SAMP
500-198110-1	Solid	EMoisture	Percent Moisture	3	SAMP
500-198110-1	Solid	SW6010B	Metals (ICP)	3	SAMP
500-198110-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	3	SAMP
500-198110-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	3	SAMP
500-198110-1	Solid	SW7470A_TCLP	Mercury_TCLP	3	SAMP
500-198110-1	Solid	SW7471B	Mercury (CVAA)	3	SAMP
500-198110-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	3	SAMP
500-198110-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	3	SAMP
500-198110-1	Solid	SW9045D	pH	3	SAMP
500-198111-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198111-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198111-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-198111-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198111-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198111-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198111-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198111-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198111-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198111-1	Solid	SW9045D	pH	1	SAMP
500-198578-1	Solid	EMoisture	Percent Moisture	6	SAMP
500-198578-1	Solid	SW6010B	Metals (ICP)	6	SAMP
500-198578-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-198578-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	6	SAMP
500-198578-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	6	SAMP
500-198578-1	Solid	SW7470A_TCLP	Mercury_TCLP	6	SAMP
500-198578-1	Solid	SW7471B	Mercury (CVAA)	6	SAMP
500-198578-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	6	SAMP
500-198578-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	6	SAMP
500-198578-1	Solid	SW9045D	pH	6	SAMP
500-198579-1	Solid	EMoisture	Percent Moisture	4	SAMP
500-198579-1	Solid	SW6010B	Metals (ICP)	4	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-198579-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	4	SAMP
500-198579-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	4	SAMP
500-198579-1	Solid	SW7470A_TCLP	Mercury_TCLP	4	SAMP
500-198579-1	Solid	SW7471B	Mercury (CVAA)	4	SAMP
500-198579-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	4	SAMP
500-198579-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	4	SAMP
500-198579-1	Solid	SW9045D	pH	4	SAMP
500-198664-1	Solid	EMoisture	Percent Moisture	7	SAMP
500-198664-1	Solid	SW6010B	Metals (ICP)	7	SAMP
500-198664-1	Solid	SW6010B_SPLP	Metals_SPLP	4	SAMP
500-198664-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	7	SAMP
500-198664-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	7	SAMP
500-198664-1	Solid	SW7470A_TCLP	Mercury_TCLP	7	SAMP
500-198664-1	Solid	SW7471B	Mercury (CVAA)	7	SAMP
500-198664-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	7	SAMP
500-198664-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	7	SAMP
500-198664-1	Solid	SW9045D	pH	7	SAMP
500-198666-1	Solid	EMoisture	Percent Moisture	1	SAMP
500-198666-1	Solid	SW6010B	Metals (ICP)	1	SAMP
500-198666-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	1	SAMP
500-198666-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	1	SAMP
500-198666-1	Solid	SW7470A_TCLP	Mercury_TCLP	1	SAMP
500-198666-1	Solid	SW7471B	Mercury (CVAA)	1	SAMP
500-198666-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	1	SAMP
500-198666-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-198666-1	Solid	SW9045D	pH	1	SAMP
500-198668-1	Solid	EMoisture	Percent Moisture	20	SAMP
500-198668-1	Solid	SW6010B	Metals (ICP)	20	SAMP
500-198668-1	Solid	SW6010B_SPLP	Metals_SPLP	4	SAMP
500-198668-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	20	SAMP
500-198668-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	20	SAMP
500-198668-1	Solid	SW7470A_TCLP	Mercury_TCLP	20	SAMP
500-198668-1	Solid	SW7471B	Mercury (CVAA)	20	SAMP
500-198668-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	20	SAMP
500-198668-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	20	SAMP
500-198668-1	Solid	SW9045D	pH	20	SAMP
500-198673-1	Solid	EMoisture	Percent Moisture	14	SAMP
500-198673-1	Solid	SW6010B	Metals (ICP)	14	SAMP
500-198673-1	Solid	SW6010B_SPLP	Metals_SPLP	3	SAMP
500-198673-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	14	SAMP
500-198673-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	14	SAMP
500-198673-1	Solid	SW7470A_TCLP	Mercury_TCLP	14	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-198673-1	Solid	SW7471B	Mercury (CVAA)	14	SAMP
500-198673-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	14	SAMP
500-198673-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	14	SAMP
500-198673-1	Solid	SW9045D	pH	14	SAMP

II. SAMPLE PROCEDURES

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

REVIEW RESULTS:

All sample procedures were followed and the sample coolers were received at the appropriate temperature (4°+/-2°C) and in good condition as documented on the Cooler Receipt Forms.

III. LABORATORY DATA

1.0 HOLDING TIMES

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

REVIEW RESULTS:

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

2.0 BLANKS

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

considered to be site related. If the analyte concentration is above the PQL, then there is a potential contamination problem and sample results may be biased high or the data unusable.

REVIEW RESULTS:

Blanks were performed at the required frequency. Acetone was detected below the PQL in method blank 500-599031/6. The associated sample result was greater than 5X the blank result; therefore, no qualification was made.

Cadmium was detected below the PQL in method blanks 500-596298/1-A, 500-596413/1-A, 500-597812/1-A, 500-597813/1-A and 500-598040/1-A. Sample results that were less than 5X the blank detection were U qualified as non-detects. For U qualified samples where the original result was less than the PQL, the MDL was elevated to the original sample result. For U qualified samples where the original result was greater than the PQL, the PQL was elevated to the original sample result. No qualification was made for samples greater than 5X the blank detection.

Calcium was detected below the PQL in method blanks 500-596298/1-A, 500-596413/1-A, 500-597812/1-A, 500-597920/1-A and 500-598040/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Calcium was detected above the PQL in method blank 500-597813/1-A. The associated sample results were greater than 10X the blank result; therefore, no qualification was made.

Iron was detected below the PQL in method blank 500-597813/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Magnesium was detected below the PQL in method blanks 500-596298/1-A and 500-597813/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Manganese was detected below the PQL in method blank 500-597813/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Mercury was detected below the PQL in method blank 500-597457/12-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Potassium was detected below the PQL in method blank 500-597812/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

Sodium was detected below the PQL in method blanks 500-597812/1-A and 500-597813/1-A. Sample results that were less than 5X the blank detection were U qualified as non-

detects. For U qualified samples where the original result was less than the PQL, the MDL was elevated to the original sample result. For U qualified samples where the original result was greater than the PQL, the PQL was elevated to the original sample result. No qualification was made for samples greater than 5X the blank detection.

Zinc was detected above the PQL in method blank 500-596413/1-A. The associated sample results were greater than 10X the blank result; therefore, no qualification was made.

Zinc was detected below the PQL in method blank 500-597813/1-A. The associated sample results were greater than 5X the blank result; therefore, no qualification was made.

The case narrative noted two continuing calibration blanks (CCB) were outside acceptance criteria. The CCBs bracketed a method blank and laboratory control sample. Client samples from the same batch were bracketed by CCBs that were within acceptance criteria. No qualification was made.

3.0 SURROGATE SPIKE RECOVERY

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

REVIEW RESULTS:

Surrogate spikes were appropriately added to all field and QC samples except as noted in Table 3. For semi-volatile analysis, there were two instances where surrogate recoveries were outside of control limits. The laboratory SOP allows up to one acid surrogate and/or one base/neutral surrogate to be outside of control. In both instances, up to one acid and/or one base/neutral surrogate recovery was outside of control limits; therefore, no qualification of the data was made.

4.0 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

The matrix spike and matrix spike duplicate (MS/MSD) analyses are intended to provide information about the effects that the sample matrix exerts on the digestion/extraction and measurement methodology. MS recovery values that do not meet laboratory QC criteria may

indicate that sample analyte results are being attenuated in the analysis procedure. These results are presented in Table 4 (if applicable). The potential sample bias may be estimated by noting the degree to which the MS concentration was elevated or lowered in the spike analysis. However, this bias should serve only as approximations; sample-specific problems may be the cause of the discrepancy, particularly in soil samples. Recoveries of a post-digestion spike or a laboratory control sample (LCS) are used to verify that the analytical methodology is acceptable and that MS recoveries are due to matrix effects. An MSD analysis is performed to evaluate the precision of the sample results. Precision is measured as the relative percent difference (RPD) between analytical results for duplicate samples. The laboratory's failure to produce similar results for MSD samples may indicate that the samples were non-homogeneous (particularly in soil samples), or that method defects may exist in the laboratory's techniques.

REVIEW RESULTS:

The MS/MSD sample analyses were performed at the required frequency. The recovery and RPD results for MS/MSDs of project samples were within QC criteria established except as noted on Table 4.

If the recovery of the spiked compound was high and there was a positive detection for the analyte in the parent sample, then the result was J qualified as estimated. No data qualification was required if the analyte was not detected in the sample. If the recovery of the spiked compound was low and the analyte was not detected in the parent sample, then the analyte was UJ qualified as estimated non-detect. If the analyte was detected in the parent sample, then the result was J qualified as estimated.

No qualification was made on the sample results when the native sample concentration was greater than four times the spiking concentration.

For MS/MSD precision that failed RPD acceptance criteria, the results in the parent sample were J or UJ qualified as estimated. For laboratory duplicates that failed precision acceptance criteria, the results in the parent sample were J qualified as estimated. No qualification was made on the analytes that exhibited poor precision and at least one of the sample results was less than 5X the PQL.

2,4-Dinitrophenol and 4,6-dinitro-2-methylphenol, were recovered below 10% in the MS and/or MSD for sample 3530-16-B02 (0-6). The analytes are poor performers in a multiparameter spike. Results were UJ qualified as estimated non-detects.

2,4-Dinitrophenol was recovered below 10% in the MS and MSD for samples 3530-31-B01 (0-5)D, 3530-39-B01 (0-5) and 3530-47-B01 (0-3). The analyte is a poor performer in a multiparameter spike. Results were UJ qualified as estimated non-detects.

5.0 LABORATORY CONTROL SAMPLE ANALYSIS

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

REVIEW RESULTS:

All LCS analyses were within control limits and performed at the required frequency except as noted in Table 5. Zinc was recovered high in LCS 500-599094/2-A. The analyte was detect in the associated samples and was J qualified as estimated.

3,3'-Dichlorobenzidine, 3-nitroaniline, carbazole and N-nitrosodiphenylamine were recovered high in LCS 500-596304/2-A. The analytes were non-detect in the associated samples; therefore, no qualification was made.

2,4-Dinitrophenol was recovered low in LCS 500-597933/2-A, 500-598177/2-A and 500-598423/2-A. The analyte was non-detect in the associated samples and were UJ qualified as estimated non-detect.

Carbon tetrachloride was recovered high in LCS 500-596845/4. The analytes were non-detect in the associated samples; therefore, no qualification was made.

Chloromethane was recovered low in LCS 500-597348/4 and LCSD 500-597348/5. The analyte was non-detect in the associated samples and were UJ qualified as estimated non-detect.

6.0 COMPOUND IDENTIFICATION AND QUANTITATION

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

REVIEW RESULTS:

All compound identification and quantitation criteria were achieved as could be determined from the EDD. Several samples were diluted due to bring the concentration of calcium within the calibration range.

Several samples were diluted due to non-target analytes interfering with the detection of cobalt and/or mercury.

3530-16-B03 (6-12) was diluted due to non-target analytes interfering with the detection of target analytes. Elevated reporting limits were provided for cadmium and selenium. The analytes may be present above screening levels but below method detection limits.

Sample 3530-16-B08 (0-6) and 3530-34-B01 (0-3) were diluted due to non-target analytes interfering with the detection of target analytes. Elevated reporting limits were provided for silver. The analyte may be present above screening levels but below method detection limits.

3530-34-B01 (0-3) and 3530-35-B03 (6-12)D were diluted due to non-target analytes interfering with the detection of target analytes. Elevated reporting limits were provided for thallium. The analyte may be present above screening levels but below method detection limits.

3530-35-B02 (0-6) was diluted due to non-target analytes interfering with the detection of target analytes. Elevated reporting limits were provided for all non-detect VOC analytes. The analytes may be present above screening levels but below method detection limits.

3530-40-B01 (10-15) was diluted due to non-target analytes interfering with the detection of target analytes. Elevated reporting limits were provided for silver and thallium. The analytes may be present above screening levels but below method detection limits.

The case narrative noted the interference check standard recovered outside acceptance criteria for barium. The laboratory states the standard is contaminated as there is no impact on the accuracy of the data. The affected samples include: 3530-15-B01 (0-3), 3530-18-B01 (0-3), 3530-29-B01 (0-2), 3530-30-B01 (0-2), 3530-35-B04 (0-4), 3530-40-B01 (0-5), 3530-40-B01 (10-15), 3530-40-B01 (5-10) and 3530-47-B01 (0-3). No qualification was made.

The case narrative noted the initial calibration verification (ICV) result for batch 500-598615 was above the upper control limit for antimony. The associated samples were non-detect for the analyte; therefore, no qualification was made.

The case narrative noted the initial calibration verification (ICV) and the continuing calibration verification for batch 500-598957 were above the upper limit for antimony. The associated samples were non-detect for the analyte; therefore, no qualification was made.

7.0 FIELD DUPLICATE SAMPLE RESULTS

Field duplicate samples were collected and analyzed as an indication of overall precision for both field and laboratory. Field duplicate results are summarized in Table 7 (if applicable). The results are expected to have more variability than laboratory duplicates, which measure only laboratory precision. It is expected also that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical field samples. The QC criteria used to assess field duplicate samples for this project was limits of 70% RPD for soils and 40% RPD for waters, or twice the general laboratory duplicate criteria. If the compounds were below the 4 times the laboratory PQL or one of the compounds was present as a non-detect, then the compounds are generally not qualified due to field duplicate precision. There are no guidelines regarding data qualification based on poor field duplicate precision. Professional judgment was used to determine whether or not to qualify results.

REVIEW RESULTS:

Three field duplicate samples were collected per 58 soil samples. The RPD ratings are listed on Table 7. Barium exhibited poor precision in field duplicate pair 3530-31-B01 (0-5) and 3530-31-B01 (0-5)D. The result was J qualified as estimated in both samples. The remaining field duplicates exhibited good precision for all analytes.

Table 2 - List of Positive Results for Blank Samples

Method	Sample ID	Sample Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B	MB 500-596298/1-A	MBLK	Cadmium	0.0585	J	A	mg/Kg	0.036	0.2
SW6010B	MB 500-596298/1-A	MBLK	Calcium	9.00	J	A	mg/Kg	3.4	20
SW6010B	MB 500-596298/1-A	MBLK	Magnesium	5.59	J	A	mg/Kg	5	10
SW6010B	MB 500-596413/1-A	MBLK	Cadmium	0.0600	J	A	mg/Kg	0.036	0.2
SW6010B	MB 500-596413/1-A	MBLK	Calcium	4.01	J	A	mg/Kg	3.4	20
SW6010B	MB 500-596413/1-A	MBLK	Zinc	2.71		A	mg/Kg	0.88	2
SW6010B	MB 500-597812/1-A	MBLK	Cadmium	0.0449	J	A	mg/Kg	0.036	0.2
SW6010B	MB 500-597812/1-A	MBLK	Calcium	3.94	J	A	mg/Kg	3.4	20
SW6010B	MB 500-597812/1-A	MBLK	Potassium	22.3	J	A	mg/Kg	18	50
SW6010B	MB 500-597812/1-A	MBLK	Sodium	15.5	J	A	mg/Kg	15	100
SW6010B	MB 500-597813/1-A	MBLK	Cadmium	0.0423	J	A	mg/Kg	0.036	0.2
SW6010B	MB 500-597813/1-A	MBLK	Calcium	29.0		A	mg/Kg	3.4	20
SW6010B	MB 500-597813/1-A	MBLK	Iron	10.8	J	A	mg/Kg	10	20
SW6010B	MB 500-597813/1-A	MBLK	Magnesium	5.09	J	A	mg/Kg	5	10
SW6010B	MB 500-597813/1-A	MBLK	Manganese	0.281	J	A	mg/Kg	0.15	1
SW6010B	MB 500-597813/1-A	MBLK	Sodium	15.5	J	A	mg/Kg	15	100
SW6010B	MB 500-597813/1-A	MBLK	Zinc	1.03	J	A	mg/Kg	0.88	2
SW6010B	MB 500-597920/1-A	MBLK	Calcium	3.73	J	A	mg/Kg	3.4	20
SW6010B	MB 500-598040/1-A	MBLK	Cadmium	0.0851	J	A	mg/Kg	0.036	0.2
SW6010B	MB 500-598040/1-A	MBLK	Calcium	3.79	J	A	mg/Kg	3.4	20
SW7471B	MB 500-597457/12-A	MBLK	Mercury	0.00611	J	A	mg/Kg	0.0056	0.017
SW8260B	MB 500-599031/6	MBLK	Acetone	0.00208	J	A	mg/Kg	0.0017	0.01

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

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.12	B	0.12	3530-35-B04 (0-4)	mg/Kg	U Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.23	B	0.11	3530-18-B01 (0-3)	mg/Kg	U Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.023	J B	0.12	3530-30-B01 (0-2)	mg/Kg	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.024	J B	0.12	3530-15-B01 (0-3)	mg/Kg	U Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.037	J B	0.12	3530-47-B01 (0-3)	mg/Kg	U Flag
SW6010B	MB 500-596298/1-A	Solid	Cadmium	0.0585	0.038	J B	0.11	3530-29-B01 (0-2)	mg/Kg	U Flag
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	1900	B	12	3530-47-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	2500	B	11	3530-29-B01 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	3000	B	12	3530-30-B01 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	3700	B	11	3530-18-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	4100	B	12	3530-35-B04 (0-4)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Calcium	9	4600	B	12	3530-15-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	1000	B	5.7	3530-18-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	1600	B	5.8	3530-47-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	2000	B	5.9	3530-30-B01 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	2100	B	5.7	3530-29-B01 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	2300	B	6.1	3530-35-B04 (0-4)	mg/Kg	Not Qualified
SW6010B	MB 500-596298/1-A	Solid	Magnesium	5.59	3100	B	6.2	3530-15-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Cadmium	0.06	0.16	B	0.11	3530-40-B01 (10-15)	mg/Kg	U Flag
SW6010B	MB 500-596413/1-A	Solid	Cadmium	0.06	0.38	B	0.13	3530-40-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Cadmium	0.06	0.060	J B	0.12	3530-40-B01 (5-10)	mg/Kg	U Flag
SW6010B	MB 500-596413/1-A	Solid	Calcium	4.01	1200	B	11	3530-40-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Calcium	4.01	1200	B	12	3530-40-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Calcium	4.01	2600	B	13	3530-40-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Zinc	2.71	36	B	1.1	3530-40-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Zinc	2.71	440	B	1.3	3530-40-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-596413/1-A	Solid	Zinc	2.71	45	B	1.2	3530-40-B01 (5-10)	mg/Kg	Not Qualified
SW7471B	MB 500-597457/12-A	Solid	Mercury	0.00611	0.036	B	0.017	3530-37-B01 (6-12)	mg/Kg	Not Qualified
SW7471B	MB 500-597457/12-A	Solid	Mercury	0.00611	0.064	B	0.019	3530-37-B02 (6-12)	mg/Kg	Not Qualified
SW7471B	MB 500-597457/12-A	Solid	Mercury	0.00611	0.11	B	0.02	3530-37-B02 (0-6)	mg/Kg	Not Qualified
SW7471B	MB 500-597457/12-A	Solid	Mercury	0.00611	0.58	B	0.036	3530-37-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.13	B	0.12	3530-16-B01 (6-12)	mg/Kg	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.19	B	0.11	3530-16-B02 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.47	B	0.12	3530-16-B05 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.17	F1 B	0.11	3530-16-B01 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.020	J B	0.11	3530-16-B05 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.025	J B	0.12	3530-16-B04 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.026	J B	0.12	3530-16-B10 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Cadmium	0.0449	0.040	J B	0.12	3530-16-B02 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1000	B	11	3530-16-B05 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1000	B	12	3530-16-B09 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1100	B	11	3530-16-B07 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1100	B	12	3530-16-B04 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1200	B	11	3530-16-B08 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1200	B	12	3530-16-B10 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1400	B	12	3530-16-B07 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	1900	B	12	3530-16-B10 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	2100	B	12	3530-16-B04 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	2200	B	12	3530-16-B06 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	2800	B	12	3530-16-B05 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	6400	B	11	3530-16-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	7100	B	12	3530-16-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	990	B	23	3530-16-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Calcium	3.94	26000	F2 B	11	3530-16-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	1100	B	30	3530-16-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	1200	B	29	3530-16-B07 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	1200	B	30	3530-16-B05 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	1800	B	29	3530-16-B04 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	530	B	28	3530-16-B07 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	530	B	29	3530-16-B09 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	540	B	57	3530-16-B03 (6-12)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	570	B	29	3530-16-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	620	B	29	3530-16-B10 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	660	B	28	3530-16-B08 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	690	B	29	3530-16-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	730	B	29	3530-16-B04 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	760	B	28	3530-16-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	850	B	28	3530-16-B05 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	850	B	29	3530-16-B10 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	930	B	30	3530-16-B09 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	960	B	30	3530-16-B06 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	990	B	30	3530-16-B08 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Potassium	22.3	1200	F1 B	27	3530-16-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	140	B	110	3530-16-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	140	B	58	3530-16-B09 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	140	B	58	3530-16-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	160	B	60	3530-16-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	62	B	58	3530-16-B01 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	63	B	58	3530-16-B07 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	77	B	54	3530-16-B01 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	80	B	56	3530-16-B06 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	86	B	57	3530-16-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	90	B	56	3530-16-B08 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	96	B	56	3530-16-B07 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	99	B	58	3530-16-B10 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	37	J B	58	3530-16-B10 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	41	J B	56	3530-16-B05 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	41	J B	59	3530-16-B08 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	46	J B	59	3530-16-B05 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	46	J B	61	3530-16-B06 (0-6)	mg/Kg	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	50	J B	58	3530-16-B04 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	50	J B	61	3530-16-B09 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-597812/1-A	Solid	Sodium	15.5	51	J B	58	3530-16-B04 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-597813/1-A	Solid	Cadmium	0.0423	0.87	B	0.12	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Cadmium	0.0423	1.1	B	0.12	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Cadmium	0.0423	1.4	B	0.12	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	1100	B	11	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	1200	B	12	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	1400	B	12	3530-31-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	1700	B	12	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	1800	B	12	3530-34-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	2100	B	12	3530-35-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	22000	B	12	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	2800	B	11	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	32000	B	12	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	850	B	12	3530-31-B01 (0-5)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	890	B	11	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	910	B	12	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Calcium	29	13000	F2 B	12	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	12000	B	11	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	14000	B	12	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	15000	B	11	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	19000	B	12	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	20000	B	12	3530-34-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	21000	B	12	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	23000	B	12	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	29000	B	12	3530-35-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	36000	B	58	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	9500	B	12	3530-35-B01 (6-12)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	9700	B	11	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Iron	10.8	22000	F2 B	12	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1300	B	5.9	3530-35-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1500	B	5.9	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1600	B	6.2	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1700	B	5.7	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1700	B	5.8	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1700	B	6	3530-35-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1800	B	5.5	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1900	B	5.7	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	2000	B	6.2	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	2700	B	6	3530-31-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	3000	B	6	3530-31-B01 (0-5)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	3100	B	6.2	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Magnesium	5.09	1500	F1 F2 B	5.8	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	1200	B	0.62	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	150	B	0.55	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	150	B	0.59	3530-35-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	160	B	0.57	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	230	B	0.6	3530-35-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	250	B	0.57	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	250	B	0.62	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	260	B	0.58	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	280	B	0.6	3530-31-B01 (0-5)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	290	B	0.6	3530-31-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	3600	B	3	3530-34-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	370	B	0.59	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	530	B	0.62	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Manganese	0.281	790	F2 B	0.58	3530-35-B03 (0-6)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	110	B	55	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	120	B	58	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	120	B	60	3530-35-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	140	B	59	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	150	B	60	3530-34-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	160	B	60	3530-31-B01 (0-5)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	180	B	62	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	270	B	57	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	410	B	58	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	500	B	62	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	560	B	60	3530-31-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	680	B	62	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	80	B	59	3530-35-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Sodium	15.5	84	B	57	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	23	B	1.1	3530-35-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	27	B	1.1	3530-31-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	27	B	1.2	3530-31-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	28	B	1.1	3530-31-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	28	B	1.2	3530-35-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	300	B	1.2	3530-35-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	310	B	1.2	3530-35-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	34	B	1.2	3530-35-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	35	B	1.2	3530-35-B03 (6-12)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	36	B	1.2	3530-34-B01 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	62	B	1.2	3530-31-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	67	B	1.2	3530-31-B01 (0-5)D	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	68	B	1.2	3530-31-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-597813/1-A	Solid	Zinc	1.03	470	F2 B ^2	1.2	3530-35-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597920/1-A	Solid	Calcium	3.73	1300	B	12	3530-37-B02 (6-12)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-597920/1-A	Solid	Calcium	3.73	1500	B	13	3530-37-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-597920/1-A	Solid	Calcium	3.73	1900	B	12	3530-37-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-597920/1-A	Solid	Calcium	3.73	59000	B	24	3530-37-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.26	B	0.11	3530-39-B04 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.27	B	0.11	3530-39-B03 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.32	B	0.12	3530-39-B04 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.46	B	0.11	3530-39-B06 (0-6)D	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.49	B	0.11	3530-39-B06 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.038	J B	0.11	3530-39-B05 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-598040/1-A	Solid	Cadmium	0.0851	0.096	J B	0.12	3530-39-B01 (5-10)	mg/Kg	U Flag
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	1000	B	12	3530-39-B02 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	1100	B	12	3530-39-B01 (10-15)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	11000	B	11	3530-39-B03 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	1500	B	11	3530-39-B03 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	1600	B	11	3530-39-B05 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	16000	B	11	3530-39-B06 (0-6)D	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	1900	B	12	3530-39-B05 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	2200	B	12	3530-39-B02 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	6700	B	11	3530-39-B04 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	8500	B	11	3530-39-B06 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	900	B	11	3530-39-B06 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-598040/1-A	Solid	Calcium	3.79	9700	B	12	3530-39-B04 (0-6)	mg/Kg	Not Qualified

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	3530-16-B05 (0-6)	SAMP	Phenol-d5	11	30	153	1	None	1
SW8270D	3530-39-B03 (0-6)	SAMP	2,4,6-Tribromophenol	30	31	143	1	None	1

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

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	3530-16-B02 (0-6)	MS	2,2'-oxybis[1-chloropropane]	ND	1.53	126	1	40	124	F1	None – High & ND
SW8270D	3530-16-B02 (0-6)	MS	2,4-Dinitrophenol	ND	3.07	0	1	10	100	U F1	UJ Flag
SW8270D	3530-16-B02 (0-6)	MSD	2,4-Dinitrophenol	ND	3.09	0	1	10	100	U F1	UJ Flag
SW8270D	3530-16-B02 (0-6)	MS	4,6-Dinitro-2-methylphenol	ND	3.07	0	1	10	110	U F1	UJ Flag
SW8270D	3530-16-B02 (0-6)	MS	Benzo[g,h,i]perylene	ND	1.53	65	1	72	131	F1	UJ Flag
SW8270D	3530-16-B02 (0-6)	MSD	Benzo[g,h,i]perylene	ND	1.55	64	1	72	131	F1	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MSD	1,2,4-Trichlorobenzene	ND	1.65	63	1	66	117	F1	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MS	2,4-Dinitrophenol	ND	3.26	0	1	10	100	U F1	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MSD	2,4-Dinitrophenol	ND	3.3	0	1	10	100	U F1	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MS	Bis(2-chloroethyl)ether	ND	1.63	114	1	55	111	F1	None – High & ND
SW8270D	3530-31-B01 (0-5)D	MSD	Hexachlorobutadiene	ND	1.65	54	1	56	120	F1	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MS	N-Nitrosodi-n-propylamine	ND	1.63	132	1	56	118	F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MS	3,3'-Dichlorobenzidine	ND	1.56	129	1	35	128	F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MSD	3,3'-Dichlorobenzidine	ND	1.55	130	1	35	128	F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MS	3-Nitroaniline	ND	1.56	247	1	40	122	E F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MSD	3-Nitroaniline	ND	1.55	243	1	40	122	E F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MS	Carbazole	ND	1.56	200	1	65	142	E F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MSD	Carbazole	ND	1.55	195	1	65	142	E F1	None – High & ND
SW8270D	3530-35-B02 (6-12)	MS	N-Nitrosodiphenylamine	ND	1.56	115	1	65	112	F1	None – High & ND

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	3530-35-B02 (6-12)	MSD	N-Nitrosodiphenylamine	ND	1.55	115	1	65	112	F1	None – High & ND
SW8270D	3530-39-B01 (0-5)	MS	2,4-Dinitrophenol	ND	3.17	0	1	10	100	U F1	UJ Flag
SW8270D	3530-39-B01 (0-5)	MSD	2,4-Dinitrophenol	ND	3.18	0	1	10	100	U F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	1,2,4-Trichlorobenzene	ND	1.65	65	1	66	117	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	1,3-Dichlorobenzene	ND	1.65	56	1	60	110	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	1,4-Dichlorobenzene	ND	1.65	57	1	61	110	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	2,4-Dinitrophenol	ND	3.31	0	1	10	100	U F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MSD	2,4-Dinitrophenol	ND	3.17	0	1	10	100	U F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	Benzo[g,h,i]perylene	ND	1.65	62	1	72	131	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MSD	Benzo[g,h,i]perylene	ND	1.59	71	1	72	131	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	Hexachlorobutadiene	ND	1.65	53	1	56	120	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MS	Hexachloroethane	ND	1.65	52	1	60	114	F1	UJ Flag
SW8270D	3530-47-B01 (0-3)	MSD	Hexachloroethane	ND	1.59	55	1	60	114	F1	UJ Flag
SW7471B	3530-39-B02 (6-12)	MSD	Mercury	0.018	0.0948	139	1	75	125	F1	J Flag
SW6010B_TCLP	3530-37-B02 (6-12)	MS	Boron	0.23	1	71	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Antimony	0.93	27.9	19	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Antimony	0.93	28	21	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Arsenic	4.5	5.58	70	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Barium	71	112	67	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Boron	2.8	55.8	68	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Boron	2.8	56.1	63	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Cadmium	0.17	2.79	74	1	75	125	F1	UJ Flag
SW6010B	3530-16-B01 (0-6)	MS	Calcium	26000	558	31	1	75	125	4	None - 4X
SW6010B	3530-16-B01 (0-6)	MSD	Calcium	26000	561	-1131	1	75	125	4 F2	None - 4X
SW6010B	3530-16-B01 (0-6)	MS	Iron	19000	55.8	-3064	1	75	125	4	None - 4X
SW6010B	3530-16-B01 (0-6)	MSD	Iron	19000	56.1	-2603	1	75	125	4	None - 4X
SW6010B	3530-16-B01 (0-6)	MS	Lead	13	5.58	57	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	3530-16-B01 (0-6)	MSD	Lead	13	5.61	73	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MS	Magnesium	8000	558	375	1	75	125	4	None - 4X
SW6010B	3530-16-B01 (0-6)	MSD	Magnesium	8000	561	-2	1	75	125	4 F2	None - 4X
SW6010B	3530-16-B01 (0-6)	MS	Manganese	330	27.9	-184	1	75	125	4	None - 4X
SW6010B	3530-16-B01 (0-6)	MSD	Manganese	330	28	244	1	75	125	4 F2	None - 4X
SW6010B	3530-16-B01 (0-6)	MS	Potassium	1200	558	229	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Potassium	1200	561	188	1	75	125	F1	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Zinc	54	28	138	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MS	Antimony	1.1	29	25	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Antimony	1.1	28.9	25	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Arsenic	12	5.79	54	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Barium	240	116	28	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Boron	25	57.9	74	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MS	Calcium	13000	580	311	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Calcium	13000	579	1656	1	75	125	4 F2	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Copper	39	14.5	36	1	75	125	F1 F2	J Flag
SW6010B	3530-35-B03 (0-6)	MS	Iron	22000	58	-460	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Iron	22000	57.9	-8655	1	75	125	4 F2	None - 4X
SW6010B	3530-35-B03 (0-6)	MS	Lead	250	5.8	959	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Lead	250	5.79	304	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MS	Magnesium	1500	580	284	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Magnesium	1500	579	160	1	75	125	F1 F2	J Flag
SW6010B	3530-35-B03 (0-6)	MS	Manganese	790	29	-106	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Manganese	790	28.9	-1032	1	75	125	4 F2	None - 4X
SW6010B	3530-35-B03 (0-6)	MS	Potassium	1100	580	146	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Potassium	1100	579	137	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MS	Selenium	1.1	5.8	69	1	75	125	F1	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Selenium	1.1	5.79	65	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	3530-35-B03 (0-6)	MS	Zinc	470	29	596	1	75	125	4	None - 4X
SW6010B	3530-35-B03 (0-6)	MSD	Zinc	470	28.9	-167	1	75	125	4 F2	None - 4X
SW6010B	3530-39-B01 (0-5)	MS	Antimony	0.74	29.8	20	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Antimony	0.74	29	21	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Arsenic	8.7	5.96	61	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Barium	110	119	59	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Barium	110	116	60	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Boron	2.8	59.6	67	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Boron	2.8	57.9	65	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Iron	20000	59.6	-1436	1	75	125	4	None - 4X
SW6010B	3530-39-B01 (0-5)	MSD	Iron	20000	57.9	1869	1	75	125	4	None - 4X
SW6010B	3530-39-B01 (0-5)	MS	Lead	15	5.96	30	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Lead	15	5.79	56	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Magnesium	2000	596	141	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Magnesium	2000	579	167	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Manganese	1100	29.8	-2585	1	75	125	4	None - 4X
SW6010B	3530-39-B01 (0-5)	MSD	Manganese	1100	29	-2331	1	75	125	4 F2	None - 4X
SW6010B	3530-39-B01 (0-5)	MS	Potassium	980	596	159	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Potassium	980	579	163	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Selenium	0.42	5.96	68	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Selenium	0.42	5.79	69	1	75	125	F1	J Flag
SW6010B	3530-39-B01 (0-5)	MS	Thallium	2.0	5.96	73	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Antimony	0.69	29.9	29	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Antimony	0.69	30.5	25	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Boron	3.4	59.8	62	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Boron	3.4	61.1	62	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Calcium	2600	598	162	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Calcium	2600	611	173	1	75	125	4	None - 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	3530-40-B01 (0-5)	MS	Chromium	18	12	133	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Chromium	18	12.2	143	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Iron	21000	59.8	9581	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Iron	21000	61.1	12570	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MS	Lead	39	5.98	-244	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Lead	39	6.11	-223	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MS	Magnesium	2400	598	260	1	75	125	F1	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Magnesium	2400	611	276	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Manganese	740	29.9	-1504	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Manganese	740	30.5	-1451	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MS	Potassium	1200	598	171	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Potassium	1200	611	174	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Selenium	0.54	5.98	74	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Selenium	0.54	6.11	71	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MSD	Vanadium	33	30.5	130	1	75	125	F1	J Flag
SW6010B	3530-40-B01 (0-5)	MS	Zinc	440	29.9	-624	1	75	125	4	None - 4X
SW6010B	3530-40-B01 (0-5)	MSD	Zinc	440	30.5	-593	1	75	125	4	None - 4X

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	3530-35-B03 (0-6)	DUP	Antimony	33	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Arsenic	22	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Barium	32	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Barium	22	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Boron	39	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Boron	24	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Cadmium	43	20	UJ Flag
SW6010B	3530-40-B01 (0-5)	DUP	Cadmium	84	20	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Calcium	29	20	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	3530-16-B01 (0-6)	DUP	Calcium	53	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Calcium	82	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Calcium	41	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Chromium	24	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Cobalt	57	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Cobalt	28	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Copper	21	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Iron	24	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Iron	25	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Lead	64	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Magnesium	33	20	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Magnesium	23	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Magnesium	26	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Magnesium	125	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Magnesium	30	20	J Flag
SW6010B	3530-16-B01 (0-6)	DUP	Manganese	35	20	J Flag
SW6010B	3530-16-B01 (0-6)	MSD	Manganese	35	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Manganese	43	20	J Flag
SW6010B	3530-39-B01 (0-5)	MSD	Manganese	24	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Manganese	79	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Potassium	22	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Selenium	26	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Selenium	34	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Silver	38	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Sodium	21	20	J Flag
SW6010B	3530-35-B03 (0-6)	DUP	Thallium	21	20	J Flag
SW6010B	3530-35-B03 (0-6)	MSD	Zinc	41	20	J Flag
SW6010B	3530-40-B01 (0-5)	DUP	Zinc	45	20	J Flag
SW7471B	3530-16-B08 (6-12)	DUP	Mercury	46	20	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW7471B	3530-39-B02 (6-12)	DUP	Mercury	56	20	J Flag
SW7471B	3530-47-B01 (0-3)	DUP	Mercury	62	20	J Flag
SW8270D	3530-35-B02 (6-12)	MSD	2,4-Dinitrophenol	60	30	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MSD	4,6-Dinitro-2-methylphenol	71	30	UJ Flag
SW8270D	3530-35-B02 (6-12)	MSD	4,6-Dinitro-2-methylphenol	43	30	UJ Flag
SW8270D	3530-39-B01 (0-5)	MSD	4,6-Dinitro-2-methylphenol	35	30	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MSD	Hexachlorocyclopentadiene	36	30	UJ Flag
SW8270D	3530-31-B01 (0-5)D	MSD	Pentachlorophenol	52	30	UJ Flag

Table 5 - List LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	Batch ID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW6010B_TCLP	LCS 500-599094/2-A	Zinc	500-599094	125	80	120	20	J Flag
SW8270D	LCS 500-596304/2-A	3,3'-Dichlorobenzidine	500-596304	133	35	128	63	None – High & ND
SW8270D	LCS 500-596304/2-A	3-Nitroaniline	500-596304	229	40	122	63	None – High & ND
SW8270D	LCS 500-596304/2-A	Carbazole	500-596304	191	65	142	63	None – High & ND
SW8270D	LCS 500-596304/2-A	N-Nitrosodiphenylamine	500-596304	118	65	112	63	None – High & ND
SW8270D	LCS 500-597933/2-A	2,4-Dinitrophenol	500-597933	3	10	100	14	UJ Flag
SW8270D	LCS 500-598177/2-A	2,4-Dinitrophenol	500-598177	7	10	100	4	UJ Flag
SW8270D	LCS 500-598423/2-A	2,4-Dinitrophenol	500-598423	5	10	100	20	UJ Flag
SW8260B	LCS 500-596845/4	Carbon tetrachloride	500-596845	132	75	125	10	None – High & ND
SW8260B	LCS 500-597348/4	Chloromethane	500-597348	59	70	125	7	UJ Flag
SW8260B	LCSD 500-597348/5	Chloromethane	500-597348	58	70	125	7	UJ Flag

Table 6 - Samples that were Re-analyzed

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
3530-16-B03 (6-12)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	17
3530-16-B04 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B05 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B05 (6-12)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B06 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B07 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B07 (6-12)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B08 (0-6)	SW6010B	SAMP	Diluted to bring the concentration of manganese within calibration limits. Elevated reporting limits provided for silver.	5	3
3530-16-B09 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-16-B10 (6-12)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-31-B01 (0-5)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	2
3530-31-B01 (0-5)D	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-31-B02 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-34-B01 (0-3)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes. Elevated reporting limits provided for silver.	2	2
3530-34-B01 (0-3)	SW6010B	SAMP	Diluted to bring the concentration of manganese within calibration limits. Elevated reporting limits provided for thallium.	5	2
3530-35-B01 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-35-B02 (0-6)	SW7471B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-35-B02 (0-6)	SW8260B	SAMP	Diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits provided for all non-detect analytes.	50	37
3530-35-B03 (0-6)	SW7471B	SAMP	Diluted due to an abundance of non-target analytes.	5	1
3530-35-B03 (6-12)D	SW6010B	SAMP	Diluted to bring the concentration of iron within calibration limits. Elevated reporting limits provided for thallium.	5	7
3530-37-B01 (0-6)	SW6010B	SAMP	Diluted to bring the concentration of calcium within calibration limits.	2	2
3530-37-B01 (0-6)	SW7471B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-37-B02 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
3530-39-B01 (0-5)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-39-B05 (0-6)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1
3530-40-B01 (10-15)	SW6010B	SAMP	Diluted to bring the concentration of manganese within calibration limits. Elevated reporting limits provided for silver and thallium.	5	3
3530-40-B01 (5-10)	SW6010B	SAMP	Diluted due to an abundance of non-target analytes.	2	1

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	3530-31-B01 (0-5)	3530-31-B01 (0-5)D	RPD	RPD Rating	Sample Qualifier
EMoisture	Percent Moisture	%	Solid	0.1	20.0	20.1	0.5%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	80.0	79.9	0.1%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.2	0.77	0.80	3.8%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.62	7.9	7.9	0.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	1.2	900	370	83.5%	Poor	J Flag
SW6010B	Beryllium	mg/Kg	Solid	0.25	0.71	0.71	0.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	3.1	2.6	2.5	3.9%	Good	None
SW6010B	Calcium	mg/Kg	Solid	12	910	850	6.8%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.62	20	19	5.1%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.62	7.3	7.7	5.3%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.62	18	17	5.7%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	21000	20000	4.9%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.31	13	14	7.4%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6.2	3100	3000	3.3%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.62	250	280	11.3%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.62	17	17	0.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	31	1200	1200	0.0%	Good	None
SW6010B	Silver	mg/Kg	Solid	0.31	0.41	0.44	7.1%	Good	None
SW6010B	Sodium	mg/Kg	Solid	62	180	160	11.8%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.62	1.0	1.0	0.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.31	34	34	0.0%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	68	67	1.5%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	0.77	0.84	8.7%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	0.16	0.061	89.6%	Poor	None <4X PQL
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	0.017	0.018	5.7%	Good	None

Method	Analyte	Unit	Matrix	PQL	3530-31-B01 (0-5)	3530-31-B01 (0-5)D	RPD	RPD Rating	Sample Qualifier
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	0.033	0.033	0.0%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	0.050	0.042	17.4%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.019	ND	0.0075	NC		
SW9045D	pH	SU	Solid	0.2	5.1	5.0	2.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	3530-35-B03 (6-12)	3530-35-B03 (6-12)D	RPD	RPD Rating	Sample Qualifier
EMoisture	Percent Moisture	%	Solid	0.1	17.0	16.8	1.2%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	83.0	83.2	0.2%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.2	1.2	1.1	8.7%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.6	9.6	11	13.6%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.6	35	61	54.2%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.24	0.98	1.0	2.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	3	1.2	1.2	0.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	12	1700	1700	0.0%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.6	18	17	5.7%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.3	15	17	12.5%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.6	11	14	24.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	29000	36000	21.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.3	14	15	6.9%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6	1700	1700	0.0%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.6	230	260	12.2%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.6	16	18	11.8%	Good	None
SW6010B	Potassium	mg/Kg	Solid	30	710	760	6.8%	Good	None
SW6010B	Silver	mg/Kg	Solid	0.3	0.36	0.40	10.5%	Good	None
SW6010B	Sodium	mg/Kg	Solid	60	120	120	0.0%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.6	0.86	ND	NC		
SW6010B	Vanadium	mg/Kg	Solid	0.3	32	39	19.7%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	34	35	2.9%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	0.24	0.42	54.5%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	0.29	0.44	41.1%	Good	None
SW6010B_TCLP	Iron	mg/L	Solid	0.4	ND	0.30	NC		
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	0.061	0.095	43.6%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.019	0.025	0.027	7.7%	Good	None
SW9045D	pH	SU	Solid	0.2	7.1	7.2	1.4%	Good	None

Method	Analyte	Unit	Matrix	PQL	3530-39-B06 (0-6)	3530-39-B06 (0-6)D	RPD	RPD Rating	Sample Qualifier
EMoisture	Percent Moisture	%	Solid	0.1	15.3	12.9	17.0%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	84.7	87.1	2.8%	Good	None
SW6010B	Antimony	mg/Kg	Solid	1.1	0.74	0.84	12.7%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.55	7.3	8.7	17.5%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.55	93	85	9.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.22	0.80	0.79	1.3%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.8	2.7	2.2	20.4%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.11	0.49	0.46	6.3%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	8500	16000	61.2%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.55	17	16	6.1%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.28	9.4	10	6.2%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.55	14	14	0.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	20000	20000	0.0%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.28	14	16	13.3%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.5	3800	4600	19.0%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.55	430	580	29.7%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.55	24	26	8.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	28	1100	1000	9.5%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.55	1.2	1.1	8.7%	Good	None
SW6010B	Silver	mg/Kg	Solid	0.28	0.36	0.33	8.7%	Good	None
SW6010B	Sodium	mg/Kg	Solid	55	100	96	4.1%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.55	1.2	1.2	0.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.28	27	24	11.8%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	69	76	9.7%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	0.16	0.14	13.3%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	0.23	0.085	92.1%	Poor	None <4X PQL
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	0.013	0.0039	107.7%	Poor	None <4X PQL
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	0.015	ND	NC		
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	0.079	0.027	98.1%	Poor	None <4X PQL
SW7471B	Mercury	mg/Kg	Solid	0.018	0.034	0.034	0.0%	Good	None
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.078	0.033	0.029	12.9%	Good	None
SW8270D	Anthracene	mg/Kg	Solid	0.039	ND	0.0079	NC		
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.039	0.0088	0.050	140.1%	Poor	None <4X PQL
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.039	ND	0.043	NC		

Method	Analyte	Unit	Matrix	PQL	3530-39-B06 (0-6)	3530-39-B06 (0-6)D	RPD	RPD Rating	Sample Qualifier
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.039	ND	0.055	NC		
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.039	ND	0.026	NC		
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.039	ND	0.023	NC		
SW8270D	Chrysene	mg/Kg	Solid	0.039	ND	0.050	NC		
SW8270D	Fluoranthene	mg/Kg	Solid	0.039	0.0093	0.11	168.8%	Poor	None <4X PQL
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.039	ND	0.019	NC		
SW8270D	Naphthalene	mg/Kg	Solid	0.039	0.052	0.012	125.0%	Poor	None <4X PQL
SW8270D	Phenanthrene	mg/Kg	Solid	0.039	0.034	0.041	18.7%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.039	0.014	0.098	150.0%	Poor	None <4X PQL
SW9045D	pH	SU	Solid	0.2	7.4	7.1	4.1%	Good	None

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
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Laboratory Job ID: 500-198664-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/19/2021 4:36:09 PM

Richard Wright, Senior Project Manager
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Case Narrative

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198664-1

Receipt
The samples were received on 5/5/2021 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1º C.

GC/MS VOA
Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: 3530-35-B02 (0-6) (500-198664-4). Elevated reporting limits (RLs) are provided.

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 597348 recovered outside control limits for Chloromethane. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.3530-35-B03 (0-6) (500-198664-1), 3530-35-B03 (6-12) (500-198664-2), 3530-35-B03 (6-12)D (500-198664-3), 3530-35-B02 (6-12) (500-198664-5), 3530-35-B01 (0-6) (500-198664-6) and 3530-35-B01 (6-12) (500-198664-7)

Method 8260B: Acetone was detected in the following items: 3530-35-B02 (0-6) (500-198664-4) and (MB 500-599031/6). Acetone is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination. 3530-35-B02 (0-6) (500-198664-4) and (MB 500-599031/6)

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

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

Metals
Method 6010B: The continuing calibration blank (CCB) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3530-35-B03 (6-12) (500-198664-2), 3530-35-B03 (6-12)D (500-198664-3), 3530-35-B02 (0-6) (500-198664-4), 3530-35-B02 (6-12) (500-198664-5), 3530-35-B01 (0-6) (500-198664-6) and 3530-35-B01 (6-12) (500-198664-7) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The method blank for preparation batch 500-597813 and analytical batch 500-598495 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

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

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

Detection Summary

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-35-B03 (0-6) Lab Sample ID: 500-198664-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.018	0.0077	mg/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	0.0010	J	0.0018	0.00049	mg/Kg	1	☼	8260B	Total/NA
Tetrachloroethene	0.0018		0.0018	0.00060	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.058		0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.11		0.083	0.0076	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.076		0.041	0.0054	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.061		0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.11	J	0.21	0.048	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.12		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.94		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13		0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.3		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.97		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.44		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.57		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.47		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.39		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.1	J F1	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12	F1	0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	240	F1	0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.92		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	25	F1	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.4	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	F2 B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	39	F1 F2	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	F2 B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	250		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500	F1 F2 B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	790	F2 B	0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	F1	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1	F1	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.83		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	410	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.8		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	470	F2 B ^2	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0070		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.034		0.0075	0.0075	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	2.1		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.24		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (0-6) (Continued)

Lab Sample ID: 500-198664-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.4		0.094	0.031	mg/Kg	5	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-35-B03 (6-12)

Lab Sample ID: 500-198664-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.98		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	1.2	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	29000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	710		30	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	120	B	60	8.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.86		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	34	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.061	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.025		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-35-B03 (6-12)D

Lab Sample ID: 500-198664-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		2.9	1.0	mg/Kg	5	☼	6010B	Total/NA
Barium	61		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.2	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	14		2.9	0.82	mg/Kg	5	☼	6010B	Total/NA
Iron	36000	B	58	30	mg/Kg	5	☼	6010B	Total/NA
Lead	15		1.5	0.67	mg/Kg	5	☼	6010B	Total/NA
Magnesium	1700	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	260	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		2.9	0.85	mg/Kg	5	☼	6010B	Total/NA
Potassium	760		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.40		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	120	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-35-B03 (6-12)D (Continued) Lab Sample ID: 500-198664-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	39		1.5	0.34	mg/Kg	5	☼	6010B	Total/NA
Zinc	35	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.027		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-35-B02 (0-6) Lab Sample ID: 500-198664-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.25	J B	0.72	0.12	mg/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	0.069	J	0.072	0.029	mg/Kg	50	☼	8260B	Total/NA
Ethylbenzene	0.023		0.018	0.013	mg/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	7.1		0.072	0.027	mg/Kg	50	☼	8260B	Total/NA
Toluene	0.033		0.018	0.011	mg/Kg	50	☼	8260B	Total/NA
trans-1,2-Dichloroethene	0.037	J	0.072	0.025	mg/Kg	50	☼	8260B	Total/NA
Trichloroethene	0.16		0.036	0.012	mg/Kg	50	☼	8260B	Total/NA
Xylenes, Total	0.081		0.036	0.016	mg/Kg	50	☼	8260B	Total/NA
Naphthalene	0.051		0.042	0.0064	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.069	J	0.084	0.0077	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.061		0.042	0.0055	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.098	J	0.21	0.049	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.021	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.68		0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.059		0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.16	J	0.21	0.10	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.60		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.45		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.19		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
3,3'-Dichlorobenzidine	0.059	J	0.21	0.059	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.042	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.19		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.086		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.080		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.83	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	230		0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	12		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.87	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	290		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-35-B02 (0-6) (Continued) Lab Sample ID: 500-198664-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2000	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	530	B	0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	950		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.51		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	500	B	62	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	310	B	1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	1.6		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0065		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.27		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.52		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.52		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	1.3		0.040	0.013	mg/Kg	2	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-35-B02 (6-12) Lab Sample ID: 500-198664-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.00078	J	0.0017	0.00059	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.31	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.2	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	8.5		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	9700	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	160	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	500		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	84	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	23	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.041		0.0075	0.0075	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-35-B02 (6-12) (Continued) Lab Sample ID: 500-198664-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-35-B01 (0-6) Lab Sample ID: 500-198664-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0039		0.0020	0.00068	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.032	J	0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.060	J	0.083	0.0075	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.075		0.041	0.0054	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.056	J	0.21	0.048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.29		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.056		0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.45		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.47		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.30		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.095		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.0	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	220		0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	49		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.1	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.62	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	26		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	200		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	1200	B	0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95		0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.55		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	680	B	62	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	300	B	1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	1.3		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0065		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.58		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.90		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-35-B01 (6-12) Lab Sample ID: 500-198664-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.58	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	1.4	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	2100	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	9500	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1300	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	150	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.37		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	80	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	28	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.087	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198664-1	3530-35-B03 (0-6)	Solid	05/04/21 08:30	05/05/21 13:30	
500-198664-2	3530-35-B03 (6-12)	Solid	05/04/21 08:40	05/05/21 13:30	
500-198664-3	3530-35-B03 (6-12)D	Solid	05/04/21 08:40	05/05/21 13:30	
500-198664-4	3530-35-B02 (0-6)	Solid	05/04/21 08:50	05/05/21 13:30	
500-198664-5	3530-35-B02 (6-12)	Solid	05/04/21 09:00	05/05/21 13:30	
500-198664-6	3530-35-B01 (0-6)	Solid	05/04/21 09:20	05/05/21 13:30	
500-198664-7	3530-35-B01 (6-12)	Solid	05/04/21 09:30	05/05/21 13:30	

Client: Environmental Design International, Inc.
Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-35-B03 (0-6)
Lab Sample ID: 500-198664-1
Date Collected: 05/04/21 08:30
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.017**	**J**	0.018	0.0077	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Chloromethane	<0.0044	*-	0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
cis-1,2-Dichloroethene	**0.0010**	**J**	0.0018	0.00049	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Tetrachloroethene	**0.0018**		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*05/05/21 17:41*	*05/07/21 13:56*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/07/21 13:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/05/21 17:41*	*05/07/21 13:56*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*05/05/21 17:41*	*05/07/21 13:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (0-6)
Date Collected: 05/04/21 08:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Naphthalene	**0.058**		0.041	0.0063	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Methylnaphthalene	**0.11**		0.083	0.0076	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Acenaphthylene	**0.076**		0.041	0.0054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Acenaphthene	**0.061**		0.041	0.0074	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Dibenzofuran	**0.11**	**J**	0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Fluorene	**0.12**		0.041	0.0058	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Phenanthrene	**0.94**		0.041	0.0057	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Anthracene	**0.13**		0.041	0.0069	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Fluoranthene	**1.3**		0.041	0.0076	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Pyrene	**0.97**		0.041	0.0082	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Benzo[a]anthracene	**0.44**		0.041	0.0055	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1

Client Sample ID: 3530-35-B03 (0-6)
Date Collected: 05/04/21 08:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.57**		0.041	0.011	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Benzo[b]fluoranthene	**0.34**		0.041	0.0089	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Benzo[k]fluoranthene	**0.47**		0.041	0.012	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Benzo[a]pyrene	**0.39**		0.041	0.0080	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Indeno[1,2,3-cd]pyrene	**0.13**		0.041	0.011	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Dibenz(a,h)anthracene	**0.047**		0.041	0.0079	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
Benzo[g,h,i]perylene	**0.12**		0.041	0.013	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/12/21 20:20	05/14/21 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*92*		*31 - 166*	*05/12/21 20:20*	*05/14/21 03:27*	*1*
Phenol-d5	*70*		*30 - 153*	*05/12/21 20:20*	*05/14/21 03:27*	*1*
Nitrobenzene-d5	*100*		*37 - 147*	*05/12/21 20:20*	*05/14/21 03:27*	*1*
2-Fluorobiphenyl	*93*		*43 - 145*	*05/12/21 20:20*	*05/14/21 03:27*	*1*
2,4,6-Tribromophenol	*78*		*31 - 143*	*05/12/21 20:20*	*05/14/21 03:27*	*1*
Terphenyl-d14	*112*		*42 - 157*	*05/12/21 20:20*	*05/14/21 03:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J F1**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Arsenic	**12**	**F1**	0.58	0.20	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Barium	**240**	**F1**	0.58	0.066	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Beryllium	**0.92**		0.23	0.054	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Boron	**25**	**F1**	2.9	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Cadmium	**1.4**	**B**	0.12	0.021	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Calcium	**13000**	**F2 B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Chromium	**14**		0.58	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Cobalt	**8.8**		0.29	0.076	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Copper	**39**	**F1 F2**	0.58	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Iron	**22000**	**F2 B**	12	6.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Lead	**250**		0.29	0.13	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Magnesium	**1500**	**F1 F2 B**	5.8	2.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Manganese	**790**	**F2 B**	0.58	0.085	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Nickel	**17**		0.58	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Potassium	**1100**	**F1**	29	10	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Selenium	**1.1**	**F1**	0.58	0.34	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Silver	**0.83**		0.29	0.075	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Sodium	**410**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Thallium	**1.8**		0.58	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Vanadium	**29**		0.29	0.069	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1
Zinc	**470**	**F2 B ^2**	1.2	0.51	mg/Kg	☼	05/10/21 09:17	05/12/21 19:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.1**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 13:42	1
Boron	**0.53**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:42	1

Client Sample ID: 3530-35-B03 (0-6)
Date Collected: 05/04/21 08:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0070**		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 13:42	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:42	1
Cobalt	**0.039**		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:42	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 13:42	1
Lead	**0.034**		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 13:42	1
Nickel	**0.031**		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:42	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 13:42	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:42	1
Zinc	**2.1**		0.50	0.020	mg/L		05/17/21 17:59	05/18/21 13:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 18:03	05/18/21 11:55	1
Lead	**0.24**		0.0075	0.0075	mg/L		05/17/21 18:03	05/18/21 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.094	0.031	mg/Kg	☼	05/12/21 14:05	05/13/21 10:08	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			05/07/21 19:10	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (6-12)

Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-2

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Chloromethane	<0.0047	*-	0.0047	0.0019	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*	*05/05/21 17:41*	*05/07/21 14:22*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*05/05/21 17:41*	*05/07/21 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/05/21 17:41*	*05/07/21 14:22*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/07/21 14:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (6-12)
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-2
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1

Client Sample ID: 3530-35-B03 (6-12)
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-2
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 20:20	05/13/21 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*80*		*31 - 166*	*05/12/21 20:20*	*05/13/21 10:19*	*1*
Phenol-d5	*73*		*30 - 153*	*05/12/21 20:20*	*05/13/21 10:19*	*1*
Nitrobenzene-d5	*64*		*37 - 147*	*05/12/21 20:20*	*05/13/21 10:19*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*05/12/21 20:20*	*05/13/21 10:19*	*1*
2,4,6-Tribromophenol	*117*		*31 - 143*	*05/12/21 20:20*	*05/13/21 10:19*	*1*
Terphenyl-d14	*78*		*42 - 157*	*05/12/21 20:20*	*05/13/21 10:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**		1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Arsenic	**9.6**		0.60	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Barium	**35**		0.60	0.068	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Beryllium	**0.98**		0.24	0.056	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Boron	**1.2**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Calcium	**1700**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Chromium	**18**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Cobalt	**15**		0.30	0.079	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Copper	**11**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Iron	**29000**	**B**	12	6.2	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Lead	**14**		0.30	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Magnesium	**1700**	**B**	6.0	3.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Manganese	**230**	**B**	0.60	0.087	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Nickel	**16**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Potassium	**710**		30	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Silver	**0.36**		0.30	0.077	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Sodium	**120**	**B**	60	8.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Thallium	**0.86**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Vanadium	**32**		0.30	0.071	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1
Zinc	**34**	**B**	1.2	0.53	mg/Kg	☼	05/10/21 09:17	05/12/21 19:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 13:46	1
Boron	**0.29**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:46	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (6-12)
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-2
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 13:46	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:46	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:46	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 13:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 13:46	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:46	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 13:46	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:46	1
Zinc	**0.061**	**J**	0.50	0.020	mg/L		05/17/21 17:59	05/18/21 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0063	mg/Kg	☼	05/12/21 14:05	05/13/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**		0.2	0.2	SU			05/07/21 19:15	1

Client Sample ID: 3530-35-B03 (6-12)D
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Chloromethane	<0.0043	*-	0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*05/05/21 17:41*	*05/07/21 14:48*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/07/21 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/05/21 17:41*	*05/07/21 14:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*05/05/21 17:41*	*05/07/21 14:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (6-12)D
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Hexachlorobenzene	<0.080		0.080	0.0093	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1

Client Sample ID: 3530-35-B03 (6-12)D
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 20:20	05/13/21 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*31 - 166*	*05/12/21 20:20*	*05/13/21 10:41*	*1*
Phenol-d5	*72*		*30 - 153*	*05/12/21 20:20*	*05/13/21 10:41*	*1*
Nitrobenzene-d5	*66*		*37 - 147*	*05/12/21 20:20*	*05/13/21 10:41*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*05/12/21 20:20*	*05/13/21 10:41*	*1*
2,4,6-Tribromophenol	*121*		*31 - 143*	*05/12/21 20:20*	*05/13/21 10:41*	*1*
Terphenyl-d14	*81*		*42 - 157*	*05/12/21 20:20*	*05/13/21 10:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Arsenic	**11**		2.9	1.0	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Barium	**61**		0.58	0.066	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Beryllium	**1.0**		0.23	0.054	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Boron	**1.2**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Calcium	**1700**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Chromium	**17**		0.58	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Cobalt	**17**		0.29	0.076	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Copper	**14**		2.9	0.82	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Iron	**36000**	**B**	58	30	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Lead	**15**		1.5	0.67	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Magnesium	**1700**	**B**	5.8	2.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Manganese	**260**	**B**	0.58	0.084	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Nickel	**18**		2.9	0.85	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Potassium	**760**		29	10	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Silver	**0.40**		0.29	0.075	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Sodium	**120**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1
Thallium	<2.9		2.9	1.5	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Vanadium	**39**		1.5	0.34	mg/Kg	☼	05/10/21 09:17	05/13/21 11:43	5
Zinc	**35**	**B**	1.2	0.51	mg/Kg	☼	05/10/21 09:17	05/12/21 19:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.42**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 13:50	1
Boron	**0.44**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:50	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B03 (6-12)D
Date Collected: 05/04/21 08:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:50	1
Iron	**0.30**	**J**	0.40	0.20	mg/L		05/17/21 17:59	05/18/21 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 13:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:50	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 13:50	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:50	1
Zinc	**0.095**	**J**	0.50	0.020	mg/L		05/17/21 17:59	05/18/21 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.020	0.0066	mg/Kg	☼	05/12/21 14:05	05/13/21 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**		0.2	0.2	SU			05/07/21 19:17	1

Client: Environmental Design International, Inc.
Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-35-B02 (0-6)
Lab Sample ID: 500-198664-4
Date Collected: 05/04/21 08:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.25**	**J B**	0.72	0.12	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Benzene	<0.018		0.018	0.011	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Bromodichloromethane	<0.072		0.072	0.027	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Bromoform	<0.072		0.072	0.035	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Bromomethane	<0.22		0.22	0.057	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
2-Butanone (MEK)	<0.36		0.36	0.15	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Carbon disulfide	<0.14		0.14	0.058	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Carbon tetrachloride	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Chlorobenzene	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Chloroethane	<0.072		0.072	0.036	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Chloroform	<0.14		0.14	0.027	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Chloromethane	<0.072		0.072	0.023	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
cis-1,2-Dichloroethene	**0.069**	**J**	0.072	0.029	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
cis-1,3-Dichloropropene	<0.072		0.072	0.030	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Dibromochloromethane	<0.072		0.072	0.035	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,1-Dichloroethane	<0.072		0.072	0.030	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,2-Dichloroethane	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,1-Dichloroethene	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,2-Dichloropropane	<0.072		0.072	0.031	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,3-Dichloropropene, Total	<0.072		0.072	0.030	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Ethylbenzene	**0.023**		0.018	0.013	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
2-Hexanone	<0.36		0.36	0.11	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Methylene Chloride	<0.36		0.36	0.12	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
4-Methyl-2-pentanone (MIBK)	<0.36		0.36	0.15	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Methyl tert-butyl ether	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Styrene	<0.072		0.072	0.028	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,1,2,2-Tetrachloroethane	<0.072		0.072	0.029	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Tetrachloroethene	**7.1**		0.072	0.027	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Toluene	**0.033**		0.018	0.011	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
trans-1,2-Dichloroethene	**0.037**	**J**	0.072	0.025	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
trans-1,3-Dichloropropene	<0.072		0.072	0.026	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,1,1-Trichloroethane	<0.072		0.072	0.027	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
1,1,2-Trichloroethane	<0.072		0.072	0.025	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Trichloroethene	**0.16**		0.036	0.012	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Vinyl acetate	<0.14		0.14	0.065	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Vinyl chloride	<0.072		0.072	0.019	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50
Xylenes, Total	**0.081**		0.036	0.016	mg/Kg	☼	05/04/21 08:50	05/15/21 15:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*05/04/21 08:50*	*05/15/21 15:42*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*05/04/21 08:50*	*05/15/21 15:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*05/04/21 08:50*	*05/15/21 15:42*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*05/04/21 08:50*	*05/15/21 15:42*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B02 (0-6)
Date Collected: 05/04/21 08:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-4
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Naphthalene	**0.051**		0.042	0.0064	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Methylnaphthalene	**0.069**	**J**	0.084	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Acenaphthylene	**0.061**		0.042	0.0055	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Dibenzofuran	**0.098**	**J**	0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Fluorene	**0.021**	**J**	0.042	0.0059	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Phenanthrene	**0.68**		0.042	0.0058	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Anthracene	**0.059**		0.042	0.0070	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Carbazole	**0.16**	**J**	0.21	0.10	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Fluoranthene	**0.60**		0.042	0.0078	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Pyrene	**0.45**		0.042	0.0083	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Benzo[a]anthracene	**0.19**		0.042	0.0056	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1

Client Sample ID: 3530-35-B02 (0-6)
Date Collected: 05/04/21 08:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-4
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.31**		0.042	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
3,3'-Dichlorobenzidine	**0.059**	**J**	0.21	0.059	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Benzo[b]fluoranthene	**0.35**		0.042	0.0090	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Benzo[k]fluoranthene	**0.19**		0.042	0.012	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Benzo[a]pyrene	**0.24**		0.042	0.0081	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Indeno[1,2,3-cd]pyrene	**0.086**		0.042	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Dibenz(a,h)anthracene	**0.026**	**J**	0.042	0.0081	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
Benzo[g,h,i]perylene	**0.080**		0.042	0.013	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 20:20	05/13/21 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*72*		*31 - 166*	*05/12/21 20:20*	*05/13/21 18:09*	*1*
Phenol-d5	*68*		*30 - 153*	*05/12/21 20:20*	*05/13/21 18:09*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*05/12/21 20:20*	*05/13/21 18:09*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*05/12/21 20:20*	*05/13/21 18:09*	*1*
2,4,6-Tribromophenol	*101*		*31 - 143*	*05/12/21 20:20*	*05/13/21 18:09*	*1*
Terphenyl-d14	*79*		*42 - 157*	*05/12/21 20:20*	*05/13/21 18:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.83**	**J**	1.2	0.24	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Arsenic	**8.2**		0.62	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Barium	**230**		0.62	0.070	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Beryllium	**0.66**		0.25	0.058	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Boron	**12**		3.1	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Cadmium	**0.87**	**B**	0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Calcium	**32000**	**B**	12	2.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Chromium	**14**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Cobalt	**6.6**		0.31	0.081	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Copper	**31**		0.62	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Iron	**14000**	**B**	12	6.4	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Lead	**290**		0.31	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Magnesium	**2000**	**B**	6.2	3.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Manganese	**530**	**B**	0.62	0.089	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Nickel	**13**		0.62	0.18	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Potassium	**950**		31	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Selenium	**0.69**		0.62	0.36	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Silver	**0.51**		0.31	0.080	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Sodium	**500**	**B**	62	9.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Thallium	**1.1**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Vanadium	**24**		0.31	0.073	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1
Zinc	**310**	**B**	1.2	0.54	mg/Kg	☼	05/10/21 09:17	05/12/21 19:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.6**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 13:53	1
Boron	**0.45**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:53	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B02 (0-6)
Date Collected: 05/04/21 08:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-4
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0065**		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 13:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:53	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:53	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 13:53	1
Lead	**0.27**		0.0075	0.0075	mg/L		05/17/21 17:59	05/19/21 12:04	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 13:53	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:53	1
Zinc	**0.52**		0.50	0.020	mg/L		05/17/21 17:59	05/18/21 13:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 18:03	05/18/21 12:05	1
Lead	**0.52**		0.0075	0.0075	mg/L		05/17/21 18:03	05/18/21 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.040	0.013	mg/Kg	☼	05/12/21 14:05	05/13/21 10:10	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			05/07/21 19:20	1

Client Sample ID: 3530-35-B02 (6-12)
Date Collected: 05/04/21 09:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-5
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Chloromethane	<0.0043	*-	0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Tetrachloroethene	**0.00078**	**J**	0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*	*05/05/21 17:41*	*05/07/21 15:14*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/07/21 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/05/21 17:41*	*05/07/21 15:14*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/07/21 15:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B02 (6-12)
Date Collected: 05/04/21 09:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-5
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
3-Nitroaniline	<0.38	F1	0.38	0.12	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4-Dinitrophenol	<0.78	F2	0.78	0.68	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
4,6-Dinitro-2-methylphenol	<0.78	F2	0.78	0.31	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Carbazole	<0.19	F1	0.19	0.096	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1

Client Sample ID: 3530-35-B02 (6-12) Lab Sample ID: 500-198664-5

Date Collected: 05/04/21 09:00 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
3,3'-Dichlorobenzidine	<0.19	F1	0.19	0.054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/12/21 20:20	05/13/21 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*31 - 166*	*05/12/21 20:20*	*05/13/21 11:02*	*1*
Phenol-d5	*71*		*30 - 153*	*05/12/21 20:20*	*05/13/21 11:02*	*1*
Nitrobenzene-d5	*64*		*37 - 147*	*05/12/21 20:20*	*05/13/21 11:02*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*05/12/21 20:20*	*05/13/21 11:02*	*1*
2,4,6-Tribromophenol	*117*		*31 - 143*	*05/12/21 20:20*	*05/13/21 11:02*	*1*
Terphenyl-d14	*78*		*42 - 157*	*05/12/21 20:20*	*05/13/21 11:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Arsenic	**2.8**		0.57	0.19	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Barium	**32**		0.57	0.065	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Beryllium	**0.50**		0.23	0.053	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Boron	**1.2**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Calcium	**2800**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Chromium	**12**		0.57	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Cobalt	**6.2**		0.28	0.074	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Copper	**8.5**		0.57	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Iron	**9700**	**B**	11	5.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Lead	**30**		0.28	0.13	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Magnesium	**1700**	**B**	5.7	2.8	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Manganese	**160**	**B**	0.57	0.082	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Nickel	**12**		0.57	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Potassium	**500**		28	10	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Silver	**0.35**		0.28	0.073	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Sodium	**84**	**B**	57	8.4	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Thallium	**0.46**	**J**	0.57	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Vanadium	**23**		0.28	0.067	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1
Zinc	**23**	**B**	1.1	0.50	mg/Kg	☼	05/10/21 09:17	05/12/21 19:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.43**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 13:57	1
Boron	**0.69**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 13:57	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B02 (6-12)
Date Collected: 05/04/21 09:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-5
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:57	1
Cobalt	**0.011**	**J**	0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:57	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 13:57	1
Lead	**0.041**		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 13:57	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 13:57	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 13:57	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		05/17/21 17:59	05/18/21 13:57	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.013**		0.0075	0.0075	mg/L		05/17/21 18:03	05/18/21 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.019	0.0063	mg/Kg	☼	05/12/21 14:05	05/13/21 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**		0.2	0.2	SU			05/07/21 19:22	1

Client Sample ID: 3530-35-B01 (0-6)
Date Collected: 05/04/21 09:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-6
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Chloromethane	<0.0050	*-	0.0050	0.0020	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Tetrachloroethene	**0.0039**		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*05/05/21 17:41*	*05/07/21 15:40*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*05/05/21 17:41*	*05/07/21 15:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/05/21 17:41*	*05/07/21 15:40*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/07/21 15:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B01 (0-6)
Date Collected: 05/04/21 09:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-6
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Naphthalene	**0.032**	**J**	0.041	0.0063	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Methylnaphthalene	**0.060**	**J**	0.083	0.0075	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Acenaphthylene	**0.075**		0.041	0.0054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Dibenzofuran	**0.056**	**J**	0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Phenanthrene	**0.29**		0.041	0.0057	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Anthracene	**0.056**		0.041	0.0069	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Fluoranthene	**0.45**		0.041	0.0076	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Pyrene	**0.47**		0.041	0.0082	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Benzo[a]anthracene	**0.22**		0.041	0.0055	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1

Client Sample ID: 3530-35-B01 (0-6)
Date Collected: 05/04/21 09:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-6
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.30**		0.041	0.011	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Benzo[b]fluoranthene	**0.35**		0.041	0.0089	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Benzo[k]fluoranthene	**0.13**		0.041	0.012	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Benzo[a]pyrene	**0.21**		0.041	0.0079	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Indeno[1,2,3-cd]pyrene	**0.095**		0.041	0.011	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
Benzo[g,h,i]perylene	**0.12**		0.041	0.013	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/12/21 20:20	05/14/21 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*84*		*31 - 166*	*05/12/21 20:20*	*05/14/21 03:48*	*1*
Phenol-d5	*67*		*30 - 153*	*05/12/21 20:20*	*05/14/21 03:48*	*1*
Nitrobenzene-d5	*85*		*37 - 147*	*05/12/21 20:20*	*05/14/21 03:48*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*05/12/21 20:20*	*05/14/21 03:48*	*1*
2,4,6-Tribromophenol	*75*		*31 - 143*	*05/12/21 20:20*	*05/14/21 03:48*	*1*
Terphenyl-d14	*123*		*42 - 157*	*05/12/21 20:20*	*05/14/21 03:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J**	1.2	0.24	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Arsenic	**9.3**		0.62	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Barium	**220**		0.62	0.070	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Beryllium	**1.1**		0.25	0.058	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Boron	**49**		3.1	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Cadmium	**1.1**	**B**	0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Calcium	**22000**	**B**	12	2.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Chromium	**15**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Cobalt	**10**		0.62	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 11:47	2
Copper	**26**		0.62	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Iron	**23000**	**B**	12	6.4	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Lead	**200**		0.31	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Magnesium	**1600**	**B**	6.2	3.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Manganese	**1200**	**B**	0.62	0.089	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Nickel	**21**		0.62	0.18	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Potassium	**1100**		31	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Selenium	**0.95**		0.62	0.36	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Silver	**0.55**		0.31	0.080	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Sodium	**680**	**B**	62	9.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Thallium	**2.0**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Vanadium	**32**		0.31	0.073	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1
Zinc	**300**	**B**	1.2	0.54	mg/Kg	☼	05/10/21 09:17	05/12/21 19:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.3**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 14:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 14:01	1
Boron	**0.50**		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 14:01	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B01 (0-6)
Date Collected: 05/04/21 09:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-6
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0065**		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 14:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:01	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 14:01	1
Lead	**0.013**		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 14:01	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 14:01	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:01	1
Zinc	**0.58**		0.50	0.020	mg/L		05/17/21 17:59	05/18/21 14:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 18:03	05/18/21 12:11	1
Lead	**0.14**		0.0075	0.0075	mg/L		05/17/21 18:03	05/18/21 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.90**		0.020	0.0065	mg/Kg	☼	05/12/21 14:05	05/13/21 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			05/07/21 19:25	1

Client Sample ID: 3530-35-B01 (6-12)
Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Chloromethane	<0.0041	*-	0.0041	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	05/05/21 17:41	05/07/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*	*05/05/21 17:41*	*05/07/21 16:05*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/07/21 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/05/21 17:41*	*05/07/21 16:05*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/07/21 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B01 (6-12)
Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1

Client Sample ID: 3530-35-B01 (6-12)
Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 20:20	05/13/21 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*71*		*31 - 166*	*05/12/21 20:20*	*05/13/21 11:23*	*1*
Phenol-d5	*68*		*30 - 153*	*05/12/21 20:20*	*05/13/21 11:23*	*1*
Nitrobenzene-d5	*59*		*37 - 147*	*05/12/21 20:20*	*05/13/21 11:23*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*05/12/21 20:20*	*05/13/21 11:23*	*1*
2,4,6-Tribromophenol	*119*		*31 - 143*	*05/12/21 20:20*	*05/13/21 11:23*	*1*
Terphenyl-d14	*83*		*42 - 157*	*05/12/21 20:20*	*05/13/21 11:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.58**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Arsenic	**2.0**		0.59	0.20	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Barium	**38**		0.59	0.067	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Beryllium	**0.66**		0.24	0.055	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Boron	**1.4**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Calcium	**2100**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Chromium	**17**		0.59	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Cobalt	**7.0**		0.29	0.077	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Copper	**8.8**		0.59	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Iron	**9500**	**B**	12	6.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Lead	**9.7**		0.29	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Magnesium	**1300**	**B**	5.9	2.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Manganese	**150**	**B**	0.59	0.085	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Nickel	**13**		0.59	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Potassium	**690**		29	10	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Silver	**0.37**		0.29	0.076	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Sodium	**80**	**B**	59	8.7	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Thallium	**0.53**	**J**	0.59	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Vanadium	**29**		0.29	0.069	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1
Zinc	**28**	**B**	1.2	0.52	mg/Kg	☼	05/10/21 09:17	05/12/21 19:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.36**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 14:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 14:04	1
Boron	**0.40**	**J**	0.50	0.050	mg/L		05/17/21 17:59	05/18/21 14:04	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B01 (6-12)
Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 14:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:04	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:04	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 14:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 14:04	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:04	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 14:04	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 14:04	1
Zinc	**0.087**	**J**	0.50	0.020	mg/L		05/17/21 17:59	05/18/21 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 14:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 14:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.019	0.0063	mg/Kg	☼	05/12/21 14:05	05/13/21 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			05/07/21 19:27	1

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 597033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	5035	

Prep Batch: 597056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	5035	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	5035	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	5035	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	5035	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	5035	
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 597348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	8260B	597056
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	8260B	597056
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	8260B	597056
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	8260B	597056
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	8260B	597056
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	8260B	597056
MB 500-597348/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597348/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-597348/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 599031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	8260B	597033
MB 500-599031/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-599031/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 598455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	3541	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	3541	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	3541	
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	3541	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	3541	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	3541	
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	3541	
MB 500-598455/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-598455/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-198664-5 MS	3530-35-B02 (6-12)	Total/NA	Solid	3541	
500-198664-5 MSD	3530-35-B02 (6-12)	Total/NA	Solid	3541	

Analysis Batch: 598506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-598455/1-A	Method Blank	Total/NA	Solid	8270D	598455
LCS 500-598455/2-A	Lab Control Sample	Total/NA	Solid	8270D	598455

GC/MS Semi VOA

Analysis Batch: 598520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	8270D	598455
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	8270D	598455
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	8270D	598455
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	8270D	598455
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	8270D	598455
500-198664-5 MS	3530-35-B02 (6-12)	Total/NA	Solid	8270D	598455
500-198664-5 MSD	3530-35-B02 (6-12)	Total/NA	Solid	8270D	598455

Analysis Batch: 598721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	8270D	598455
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	8270D	598455

Metals

Prep Batch: 597813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	3050B	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	3050B	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	3050B	
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	3050B	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	3050B	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	3050B	
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	3050B	
MB 500-597813/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-198664-1 MS	3530-35-B03 (0-6)	Total/NA	Solid	3050B	
500-198664-1 MSD	3530-35-B03 (0-6)	Total/NA	Solid	3050B	
500-198664-1 DU	3530-35-B03 (0-6)	Total/NA	Solid	3050B	

Prep Batch: 598341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	7471B	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	7471B	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	7471B	
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	7471B	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	7471B	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	7471B	
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	7471B	
MB 500-598341/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-598341/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 598495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	6010B	597813
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	6010B	597813
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	6010B	597813
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	6010B	597813
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	6010B	597813
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	6010B	597813
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	6010B	597813

Metals (Continued)

Analysis Batch: 598495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-597813/1-A	Method Blank	Total/NA	Solid	6010B	597813
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	6010B	597813
500-198664-1 MS	3530-35-B03 (0-6)	Total/NA	Solid	6010B	597813
500-198664-1 MSD	3530-35-B03 (0-6)	Total/NA	Solid	6010B	597813
500-198664-1 DU	3530-35-B03 (0-6)	Total/NA	Solid	6010B	597813

Analysis Batch: 598607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	7471B	598341
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	7471B	598341
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	7471B	598341
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	7471B	598341
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	7471B	598341
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	7471B	598341
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	7471B	598341
MB 500-598341/12-A	Method Blank	Total/NA	Solid	7471B	598341
LCS 500-598341/13-A	Lab Control Sample	Total/NA	Solid	7471B	598341

Analysis Batch: 598684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	6010B	597813
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	6010B	597813

Leach Batch: 599142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	1311	
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	1311	
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	1311	
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	1311	
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	1311	
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	1311	
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	1311	
LB 500-599142/1-B	Method Blank	TCLP	Solid	1311	
LB 500-599142/1-C	Method Blank	TCLP	Solid	1311	
500-198664-7 MS	3530-35-B01 (6-12)	TCLP	Solid	1311	
500-198664-7 DU	3530-35-B01 (6-12)	TCLP	Solid	1311	

Leach Batch: 599152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	SPLP East	Solid	1312	
500-198664-4	3530-35-B02 (0-6)	SPLP East	Solid	1312	
500-198664-5	3530-35-B02 (6-12)	SPLP East	Solid	1312	
500-198664-6	3530-35-B01 (0-6)	SPLP East	Solid	1312	
LB 500-599152/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 599285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	7470A	599142
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	7470A	599142
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	7470A	599142
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	7470A	599142

Metals (Continued)

Prep Batch: 599285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	7470A	599142
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	7470A	599142
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	7470A	599142
LB 500-599142/1-B	Method Blank	TCLP	Solid	7470A	599142
MB 500-599285/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-599285/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-198664-7 MS	3530-35-B01 (6-12)	TCLP	Solid	7470A	599142
500-198664-7 DU	3530-35-B01 (6-12)	TCLP	Solid	7470A	599142

Prep Batch: 599348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	3010A	599142
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	3010A	599142
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	3010A	599142
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	3010A	599142
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	3010A	599142
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	3010A	599142
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	3010A	599142
LB 500-599142/1-C	Method Blank	TCLP	Solid	3010A	599142
LCS 500-599348/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 599350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	SPLP East	Solid	3010A	599152
500-198664-4	3530-35-B02 (0-6)	SPLP East	Solid	3010A	599152
500-198664-5	3530-35-B02 (6-12)	SPLP East	Solid	3010A	599152
500-198664-6	3530-35-B01 (0-6)	SPLP East	Solid	3010A	599152
LB 500-599152/1-B	Method Blank	SPLP East	Solid	3010A	599152
LCS 500-599350/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 599517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	7470A	599285
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	7470A	599285
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	7470A	599285
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	7470A	599285
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	7470A	599285
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	7470A	599285
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	7470A	599285
LB 500-599142/1-B	Method Blank	TCLP	Solid	7470A	599285
MB 500-599285/12-A	Method Blank	Total/NA	Solid	7470A	599285
LCS 500-599285/14-A	Lab Control Sample	Total/NA	Solid	7470A	599285
500-198664-7 MS	3530-35-B01 (6-12)	TCLP	Solid	7470A	599285
500-198664-7 DU	3530-35-B01 (6-12)	TCLP	Solid	7470A	599285

Analysis Batch: 599693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	SPLP East	Solid	6010B	599350
500-198664-4	3530-35-B02 (0-6)	SPLP East	Solid	6010B	599350
500-198664-5	3530-35-B02 (6-12)	SPLP East	Solid	6010B	599350
500-198664-6	3530-35-B01 (0-6)	SPLP East	Solid	6010B	599350

Metals (Continued)

Analysis Batch: 599693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-599152/1-B	Method Blank	SPLP East	Solid	6010B	599350
LCS 500-599350/2-A	Lab Control Sample	Total/NA	Solid	6010B	599350

Analysis Batch: 599696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	6010B	599348
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	6010B	599348
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	6010B	599348
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	6010B	599348
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	6010B	599348
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	6010B	599348
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	6010B	599348
LB 500-599142/1-C	Method Blank	TCLP	Solid	6010B	599348
LCS 500-599348/2-A	Lab Control Sample	Total/NA	Solid	6010B	599348

Analysis Batch: 599791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	6010B	599348

Analysis Batch: 599793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	TCLP	Solid	6020A	599348
500-198664-2	3530-35-B03 (6-12)	TCLP	Solid	6020A	599348
500-198664-3	3530-35-B03 (6-12)D	TCLP	Solid	6020A	599348
500-198664-4	3530-35-B02 (0-6)	TCLP	Solid	6020A	599348
500-198664-5	3530-35-B02 (6-12)	TCLP	Solid	6020A	599348
500-198664-6	3530-35-B01 (0-6)	TCLP	Solid	6020A	599348
500-198664-7	3530-35-B01 (6-12)	TCLP	Solid	6020A	599348
LB 500-599142/1-C	Method Blank	TCLP	Solid	6020A	599348
LCS 500-599348/2-A	Lab Control Sample	Total/NA	Solid	6020A	599348

General Chemistry

Analysis Batch: 597446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	Moisture	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	Moisture	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	Moisture	
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	Moisture	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	Moisture	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	Moisture	
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	Moisture	

Analysis Batch: 597710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-1	3530-35-B03 (0-6)	Total/NA	Solid	9045D	
500-198664-2	3530-35-B03 (6-12)	Total/NA	Solid	9045D	
500-198664-3	3530-35-B03 (6-12)D	Total/NA	Solid	9045D	
500-198664-4	3530-35-B02 (0-6)	Total/NA	Solid	9045D	
500-198664-5	3530-35-B02 (6-12)	Total/NA	Solid	9045D	
500-198664-6	3530-35-B01 (0-6)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 597710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198664-7	3530-35-B01 (6-12)	Total/NA	Solid	9045D	
LCS 500-597710/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597710/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198664-1	3530-35-B03 (0-6)	83	103	103	98
500-198664-2	3530-35-B03 (6-12)	81	104	104	96
500-198664-3	3530-35-B03 (6-12)D	84	101	101	98
500-198664-5	3530-35-B02 (6-12)	80	103	101	96
500-198664-6	3530-35-B01 (0-6)	83	104	102	97
500-198664-7	3530-35-B01 (6-12)	80	102	102	97
LCS 500-597348/4	Lab Control Sample	78	92	89	100
LCSD 500-597348/5	Lab Control Sample Dup	80	93	91	100
MB 500-597348/7	Method Blank	86	101	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-198664-4	3530-35-B02 (0-6)	102	99	107	91
LCS 500-599031/4	Lab Control Sample	96	99	104	91
MB 500-599031/6	Method Blank	106	97	104	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198664-1	3530-35-B03 (0-6)	92	70	100	93	78	112
500-198664-2	3530-35-B03 (6-12)	80	73	64	86	117	78
500-198664-3	3530-35-B03 (6-12)D	76	72	66	90	121	81
500-198664-4	3530-35-B02 (0-6)	72	68	67	90	101	79
500-198664-5	3530-35-B02 (6-12)	75	71	64	83	117	78
500-198664-5 MS	3530-35-B02 (6-12)	78	75	70	91	110	81
500-198664-5 MSD	3530-35-B02 (6-12)	80	80	70	91	113	82
500-198664-6	3530-35-B01 (0-6)	84	67	85	84	75	123
500-198664-7	3530-35-B01 (6-12)	71	68	59	76	119	83
LCS 500-598455/2-A	Lab Control Sample	90	90	87	106	86	95
MB 500-598455/1-A	Method Blank	89	86	82	100	72	115

Surrogate Legend

2FP = 2-Fluorophenol

Surrogate Summary

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

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

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

Lab Sample ID: MB 500-597348/7
Matrix: Solid
Analysis Batch: 597348

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/07/21 11:21	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/07/21 11:21	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/07/21 11:21	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/07/21 11:21	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/07/21 11:21	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/07/21 11:21	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/07/21 11:21	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/07/21 11:21	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/07/21 11:21	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/07/21 11:21	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/07/21 11:21	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/07/21 11:21	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/07/21 11:21	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/07/21 11:21	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/07/21 11:21	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/07/21 11:21	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/07/21 11:21	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/07/21 11:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/07/21 11:21	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/07/21 11:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/07/21 11:21	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/07/21 11:21	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/07/21 11:21	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/07/21 11:21	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/07/21 11:21	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/07/21 11:21	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/07/21 11:21	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/07/21 11:21	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/07/21 11:21	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/07/21 11:21	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/07/21 11:21	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/07/21 11:21	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/07/21 11:21	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/07/21 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*05/07/21 11:21*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*05/07/21 11:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*05/07/21 11:21*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*		*05/07/21 11:21*	*1*

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

Lab Sample ID: LCS 500-597348/4
Matrix: Solid
Analysis Batch: 597348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0496		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0512		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0581		mg/Kg		116	68 - 136
Bromomethane	0.0500	0.0491		mg/Kg		98	70 - 130
2-Butanone (MEK)	0.0500	0.0380		mg/Kg		76	47 - 138
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0476		mg/Kg		95	75 - 125
Chlorobenzene	0.0500	0.0532		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0293	*-	mg/Kg		59	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
Dibromochloromethane	0.0500	0.0574		mg/Kg		115	69 - 125
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 125
Ethylbenzene	0.0500	0.0569		mg/Kg		114	61 - 136
2-Hexanone	0.0500	0.0415		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0405		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	50 - 140
Styrene	0.0500	0.0566		mg/Kg		113	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0453		mg/Kg		91	70 - 122
Tetrachloroethene	0.0500	0.0573		mg/Kg		115	70 - 124
Toluene	0.0500	0.0529		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,1-Trichloroethane	0.0500	0.0470		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0579		mg/Kg		116	70 - 125
Trichloroethene	0.0500	0.0536		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0365		mg/Kg		73	40 - 153
Vinyl chloride	0.0500	0.0376		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-597348/5
Matrix: Solid
Analysis Batch: 597348

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0395		mg/Kg		79	40 - 150	4	30
Benzene			0.0500	0.0478		mg/Kg		96	70 - 125	4	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	1	30
Bromoform			0.0500	0.0586		mg/Kg		117	68 - 136	1	30
Bromomethane			0.0500	0.0499		mg/Kg		100	70 - 130	2	30
2-Butanone (MEK)			0.0500	0.0351		mg/Kg		70	47 - 138	8	30
Carbon disulfide			0.0500	0.0433		mg/Kg		87	70 - 129	6	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	5	30
Chlorobenzene			0.0500	0.0512		mg/Kg		102	50 - 150	4	30
Chloroethane			0.0500	0.0463		mg/Kg		93	75 - 125	2	30
Chloroform			0.0500	0.0480		mg/Kg		96	57 - 135	6	30
Chloromethane			0.0500	0.0289	*-	mg/Kg		58	70 - 125	1	30
cis-1,2-Dichloroethene			0.0500	0.0463		mg/Kg		93	70 - 125	4	30
cis-1,3-Dichloropropene			0.0500	0.0514		mg/Kg		103	70 - 125	1	30
Dibromochloromethane			0.0500	0.0572		mg/Kg		114	69 - 125	0	30
1,1-Dichloroethane			0.0500	0.0442		mg/Kg		88	70 - 125	5	30
1,2-Dichloroethane			0.0500	0.0475		mg/Kg		95	70 - 130	2	30
1,1-Dichloroethene			0.0500	0.0460		mg/Kg		92	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0472		mg/Kg		94	70 - 125	2	30
Ethylbenzene			0.0500	0.0536		mg/Kg		107	61 - 136	6	30
2-Hexanone			0.0500	0.0454		mg/Kg		91	48 - 146	9	30
Methylene Chloride			0.0500	0.0458		mg/Kg		92	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0447		mg/Kg		89	50 - 148	10	30
Methyl tert-butyl ether			0.0500	0.0436		mg/Kg		87	50 - 140	1	30
Styrene			0.0500	0.0533		mg/Kg		107	70 - 125	6	30
1,1,2,2-Tetrachloroethane			0.0500	0.0481		mg/Kg		96	70 - 122	6	30
Tetrachloroethene			0.0500	0.0559		mg/Kg		112	70 - 124	2	30
Toluene			0.0500	0.0507		mg/Kg		101	70 - 125	4	30
trans-1,2-Dichloroethene			0.0500	0.0476		mg/Kg		95	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0511		mg/Kg		102	70 - 125	1	30
1,1,1-Trichloroethane			0.0500	0.0447		mg/Kg		89	70 - 128	5	30
1,1,2-Trichloroethane			0.0500	0.0575		mg/Kg		115	70 - 125	1	30
Trichloroethene			0.0500	0.0525		mg/Kg		105	70 - 125	2	30
Vinyl acetate			0.0500	0.0392		mg/Kg		78	40 - 153	7	30
Vinyl chloride			0.0500	0.0389		mg/Kg		78	70 - 125	3	30
Xylenes, Total			0.100	0.0977		mg/Kg		98	53 - 147	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: MB 500-599031/6
Matrix: Solid
Analysis Batch: 599031

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00208	J	0.010	0.0017	mg/Kg			05/15/21 09:51	1
Benzene	<0.00025		0.00025	0.00015	mg/Kg			05/15/21 09:51	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/Kg			05/15/21 09:51	1
Bromoform	<0.0010		0.0010	0.00048	mg/Kg			05/15/21 09:51	1
Bromomethane	<0.0030		0.0030	0.00080	mg/Kg			05/15/21 09:51	1
2-Butanone (MEK)	<0.0050		0.0050	0.0021	mg/Kg			05/15/21 09:51	1
Carbon disulfide	<0.0020		0.0020	0.00080	mg/Kg			05/15/21 09:51	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/Kg			05/15/21 09:51	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/Kg			05/15/21 09:51	1
Chloroethane	<0.0010		0.0010	0.00050	mg/Kg			05/15/21 09:51	1
Chloroform	<0.0020		0.0020	0.00037	mg/Kg			05/15/21 09:51	1
Chloromethane	<0.0010		0.0010	0.00032	mg/Kg			05/15/21 09:51	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/Kg			05/15/21 09:51	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/Kg			05/15/21 09:51	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/Kg			05/15/21 09:51	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/Kg			05/15/21 09:51	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/Kg			05/15/21 09:51	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/Kg			05/15/21 09:51	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/Kg			05/15/21 09:51	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/Kg			05/15/21 09:51	1
Ethylbenzene	<0.00025		0.00025	0.00018	mg/Kg			05/15/21 09:51	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/15/21 09:51	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/Kg			05/15/21 09:51	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0022	mg/Kg			05/15/21 09:51	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/Kg			05/15/21 09:51	1
Styrene	<0.0010		0.0010	0.00039	mg/Kg			05/15/21 09:51	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/Kg			05/15/21 09:51	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/Kg			05/15/21 09:51	1
Toluene	<0.00025		0.00025	0.00015	mg/Kg			05/15/21 09:51	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/Kg			05/15/21 09:51	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/Kg			05/15/21 09:51	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/Kg			05/15/21 09:51	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/Kg			05/15/21 09:51	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/Kg			05/15/21 09:51	1
Vinyl acetate	<0.0020		0.0020	0.00090	mg/Kg			05/15/21 09:51	1
Vinyl chloride	<0.0010		0.0010	0.00026	mg/Kg			05/15/21 09:51	1
Xylenes, Total	<0.00050		0.00050	0.00022	mg/Kg			05/15/21 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/15/21 09:51*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*05/15/21 09:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*05/15/21 09:51*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*05/15/21 09:51*	*1*

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

Lab Sample ID: LCS 500-599031/4
Matrix: Solid
Analysis Batch: 599031

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0501		mg/Kg		100	40 - 143
Benzene	0.0500	0.0439		mg/Kg		88	70 - 120
Bromodichloromethane	0.0500	0.0429		mg/Kg		86	69 - 120
Bromoform	0.0500	0.0427		mg/Kg		85	56 - 132
Bromomethane	0.0500	0.0343		mg/Kg		69	40 - 152
2-Butanone (MEK)	0.0500	0.0480		mg/Kg		96	46 - 144
Carbon disulfide	0.0500	0.0442		mg/Kg		88	66 - 120
Carbon tetrachloride	0.0500	0.0452		mg/Kg		90	59 - 133
Chlorobenzene	0.0500	0.0431		mg/Kg		86	70 - 120
Chloroethane	0.0500	0.0489		mg/Kg		98	48 - 136
Chloroform	0.0500	0.0448		mg/Kg		90	70 - 120
Chloromethane	0.0500	0.0478		mg/Kg		96	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0464		mg/Kg		93	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0396		mg/Kg		79	64 - 127
Dibromochloromethane	0.0500	0.0420		mg/Kg		84	68 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0496		mg/Kg		99	68 - 127
1,1-Dichloroethene	0.0500	0.0437		mg/Kg		87	67 - 122
1,2-Dichloropropane	0.0500	0.0565		mg/Kg		113	67 - 130
Ethylbenzene	0.0500	0.0458		mg/Kg		92	70 - 123
2-Hexanone	0.0500	0.0446		mg/Kg		89	54 - 146
Methylene Chloride	0.0500	0.0434		mg/Kg		87	69 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0453		mg/Kg		91	55 - 139
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	55 - 123
Styrene	0.0500	0.0451		mg/Kg		90	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0416		mg/Kg		83	62 - 140
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 128
Toluene	0.0500	0.0414		mg/Kg		83	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0459		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0376		mg/Kg		75	62 - 128
1,1,1-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
1,1,2-Trichloroethane	0.0500	0.0409		mg/Kg		82	71 - 130
Trichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125
Vinyl acetate	0.0500	0.0464		mg/Kg		93	43 - 133
Vinyl chloride	0.0500	0.0486		mg/Kg		97	64 - 126
Xylenes, Total	0.100	0.0863		mg/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*91*		*75 - 120*

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

Lab Sample ID: MB 500-598455/1-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/12/21 20:20	05/13/21 09:45	1

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

Lab Sample ID: MB 500-598455/1-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/12/21 20:20	05/13/21 09:45	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/12/21 20:20	05/13/21 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*89*		*31 - 166*	*05/12/21 20:20*	*05/13/21 09:45*	*1*
Phenol-d5	*86*		*30 - 153*	*05/12/21 20:20*	*05/13/21 09:45*	*1*
Nitrobenzene-d5	*82*		*37 - 147*	*05/12/21 20:20*	*05/13/21 09:45*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*05/12/21 20:20*	*05/13/21 09:45*	*1*
2,4,6-Tribromophenol	*72*		*31 - 143*	*05/12/21 20:20*	*05/13/21 09:45*	*1*
Terphenyl-d14	*115*		*42 - 157*	*05/12/21 20:20*	*05/13/21 09:45*	*1*

Lab Sample ID: LCS 500-598455/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.28		mg/Kg		96	56 - 122
Bis(2-chloroethyl)ether	1.33	1.07		mg/Kg		80	55 - 111
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.18		mg/Kg		88	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		87	62 - 110
2-Methylphenol	1.33	1.34		mg/Kg		101	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.58		mg/Kg		119	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.15		mg/Kg		86	56 - 118
Hexachloroethane	1.33	1.06		mg/Kg		80	60 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110
Nitrobenzene	1.33	1.19		mg/Kg		89	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.18		mg/Kg		88	60 - 112
1,2,4-Trichlorobenzene	1.33	1.26		mg/Kg		94	66 - 117
Isophorone	1.33	1.17		mg/Kg		88	55 - 110
2,4-Dimethylphenol	1.33	1.25		mg/Kg		94	60 - 110
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Naphthalene	1.33	1.27		mg/Kg		95	63 - 110
2,4-Dichlorophenol	1.33	1.21		mg/Kg		90	58 - 120

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

Lab Sample ID: LCS 500-598455/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.12		mg/Kg		84	30 - 150
2,4,6-Trichlorophenol	1.33	1.21		mg/Kg		91	57 - 120
2,4,5-Trichlorophenol	1.33	1.42		mg/Kg		107	50 - 120
Hexachlorocyclopentadiene	1.33	0.803		mg/Kg		60	10 - 133
2-Methylnaphthalene	1.33	1.31		mg/Kg		98	69 - 112
2-Nitroaniline	1.33	1.34		mg/Kg		101	57 - 124
2-Chloronaphthalene	1.33	1.27		mg/Kg		95	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.27		mg/Kg		95	70 - 123
2-Nitrophenol	1.33	1.10		mg/Kg		83	60 - 120
3-Nitroaniline	1.33	1.05		mg/Kg		79	40 - 122
Dimethyl phthalate	1.33	1.22		mg/Kg		91	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		11	10 - 100
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
2,4-Dinitrotoluene	1.33	1.38		mg/Kg		104	69 - 124
Acenaphthene	1.33	1.32		mg/Kg		99	65 - 124
Dibenzofuran	1.33	1.40		mg/Kg		105	66 - 115
4-Nitrophenol	2.67	2.60		mg/Kg		97	30 - 122
Fluorene	1.33	1.33		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Hexachlorobenzene	1.33	1.37		mg/Kg		102	63 - 124
Diethyl phthalate	1.33	1.28		mg/Kg		96	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.34		mg/Kg		101	62 - 119
Pentachlorophenol	2.67	1.83		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.28		mg/Kg		96	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.805		mg/Kg		30	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.36		mg/Kg		102	70 - 114
Carbazole	1.33	1.51		mg/Kg		113	65 - 142
Di-n-butyl phthalate	1.33	1.29		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.44		mg/Kg		108	62 - 120
Pyrene	1.33	1.26		mg/Kg		95	61 - 128
Butyl benzyl phthalate	1.33	1.10		mg/Kg		83	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.27		mg/Kg		95	63 - 120
3,3'-Dichlorobenzidine	1.33	1.04		mg/Kg		78	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		89	72 - 131
Di-n-octyl phthalate	1.33	1.26		mg/Kg		94	68 - 134
Benzo[b]fluoranthene	1.33	1.32		mg/Kg		99	69 - 129
Benzo[k]fluoranthene	1.33	1.39		mg/Kg		104	68 - 127
Benzo[a]pyrene	1.33	1.46		mg/Kg		109	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.47		mg/Kg		110	68 - 130
Dibenz(a,h)anthracene	1.33	1.47		mg/Kg		110	64 - 131
Benzo[g,h,i]perylene	1.33	1.45		mg/Kg		109	72 - 131
3 & 4 Methylphenol	1.33	1.11		mg/Kg		83	57 - 120

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

Lab Sample ID: LCS 500-598455/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598455

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	*90*		*31 - 166*
Phenol-d5	*90*		*30 - 153*
Nitrobenzene-d5	*87*		*37 - 147*
2-Fluorobiphenyl	*106*		*43 - 145*
2,4,6-Tribromophenol	*86*		*31 - 143*
Terphenyl-d14	*95*		*42 - 157*

Lab Sample ID: 500-198664-5 MS
Matrix: Solid
Analysis Batch: 598520

Client Sample ID: 3530-35-B02 (6-12)
Prep Type: Total/NA
Prep Batch: 598455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.19		1.56	1.19		mg/Kg	☼	76	56 - 122
Bis(2-chloroethyl)ether	<0.19		1.56	1.14		mg/Kg	☼	73	55 - 111
1,3-Dichlorobenzene	<0.19		1.56	1.13		mg/Kg	☼	73	60 - 110
1,4-Dichlorobenzene	<0.19		1.56	1.20		mg/Kg	☼	77	61 - 110
1,2-Dichlorobenzene	<0.19		1.56	1.22		mg/Kg	☼	78	62 - 110
2-Methylphenol	<0.19		1.56	1.40		mg/Kg	☼	90	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.56	0.904		mg/Kg	☼	58	40 - 124
N-Nitrosodi-n-propylamine	<0.078		1.56	0.982		mg/Kg	☼	63	56 - 118
Hexachloroethane	<0.19		1.56	1.06		mg/Kg	☼	68	60 - 114
2-Chlorophenol	<0.19		1.56	1.27		mg/Kg	☼	82	64 - 110
Nitrobenzene	<0.038		1.56	1.10		mg/Kg	☼	71	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.56	1.15		mg/Kg	☼	74	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.56	1.42		mg/Kg	☼	91	66 - 117
Isophorone	<0.19		1.56	1.12		mg/Kg	☼	72	55 - 110
2,4-Dimethylphenol	<0.38		1.56	1.25		mg/Kg	☼	81	60 - 110
Hexachlorobutadiene	<0.19		1.56	1.53		mg/Kg	☼	98	56 - 120
Naphthalene	<0.038		1.56	1.32		mg/Kg	☼	85	63 - 110
2,4-Dichlorophenol	<0.38		1.56	1.47		mg/Kg	☼	95	58 - 120
4-Chloroaniline	<0.78		1.56	1.59		mg/Kg	☼	102	30 - 150
2,4,6-Trichlorophenol	<0.38		1.56	1.49		mg/Kg	☼	96	57 - 120
2,4,5-Trichlorophenol	<0.38		1.56	1.68		mg/Kg	☼	108	50 - 120
Hexachlorocyclopentadiene	<0.78		1.56	1.06		mg/Kg	☼	68	10 - 133
2-Methylnaphthalene	<0.078		1.56	1.32		mg/Kg	☼	85	69 - 112
2-Nitroaniline	<0.19		1.56	1.13		mg/Kg	☼	72	57 - 124
2-Chloronaphthalene	<0.19		1.56	1.37		mg/Kg	☼	88	69 - 114
4-Chloro-3-methylphenol	<0.38		1.56	1.33		mg/Kg	☼	86	65 - 122
2,6-Dinitrotoluene	<0.19		1.56	1.44		mg/Kg	☼	93	70 - 123
2-Nitrophenol	<0.38		1.56	1.29		mg/Kg	☼	83	60 - 120
3-Nitroaniline	<0.38	F1	1.56	3.85	E F1	mg/Kg	☼	247	40 - 122
Dimethyl phthalate	<0.19		1.56	1.40		mg/Kg	☼	90	69 - 116
2,4-Dinitrophenol	<0.78	F2	3.11	1.42		mg/Kg	☼	46	10 - 100
Acenaphthylene	<0.038		1.56	1.43		mg/Kg	☼	92	68 - 120
2,4-Dinitrotoluene	<0.19		1.56	1.52		mg/Kg	☼	98	69 - 124
Acenaphthene	<0.038		1.56	1.40		mg/Kg	☼	90	65 - 124
Dibenzofuran	<0.19		1.56	1.38		mg/Kg	☼	89	66 - 115
4-Nitrophenol	<0.78		3.11	3.38		mg/Kg	☼	108	30 - 122

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

Lab Sample ID: 500-198664-5 MS **Client Sample ID: 3530-35-B02 (6-12)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598520 **Prep Batch: 598455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.038		1.56	1.38		mg/Kg	☼	89	62 - 120
4-Nitroaniline	<0.38		1.56	1.86		mg/Kg	☼	120	60 - 160
4-Bromophenyl phenyl ether	<0.19		1.56	1.45		mg/Kg	☼	93	68 - 118
Hexachlorobenzene	<0.078		1.56	1.58		mg/Kg	☼	102	63 - 124
Diethyl phthalate	<0.19		1.56	1.39		mg/Kg	☼	89	58 - 120
4-Chlorophenyl phenyl ether	<0.19		1.56	1.49		mg/Kg	☼	96	62 - 119
Pentachlorophenol	<0.78		3.11	2.73		mg/Kg	☼	88	13 - 112
N-Nitrosodiphenylamine	<0.19	F1	1.56	1.78	F1	mg/Kg	☼	115	65 - 112
4,6-Dinitro-2-methylphenol	<0.78	F2	3.11	2.41		mg/Kg	☼	77	10 - 110
Phenanthrene	<0.038		1.56	1.39		mg/Kg	☼	89	62 - 120
Anthracene	<0.038		1.56	1.40		mg/Kg	☼	90	70 - 114
Carbazole	<0.19	F1	1.56	3.11	E F1	mg/Kg	☼	200	65 - 142
Di-n-butyl phthalate	<0.19		1.56	1.28		mg/Kg	☼	82	65 - 120
Fluoranthene	<0.038		1.56	1.51		mg/Kg	☼	97	62 - 120
Pyrene	<0.038		1.56	1.24		mg/Kg	☼	79	61 - 128
Butyl benzyl phthalate	<0.19		1.56	1.12		mg/Kg	☼	72	71 - 129
Benzo[a]anthracene	<0.038		1.56	1.37		mg/Kg	☼	88	67 - 122
Chrysene	<0.038		1.56	1.43		mg/Kg	☼	92	63 - 120
3,3'-Dichlorobenzidine	<0.19	F1	1.56	2.00	F1	mg/Kg	☼	129	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19		1.56	1.21		mg/Kg	☼	78	72 - 131
Di-n-octyl phthalate	<0.19		1.56	1.46		mg/Kg	☼	94	68 - 134
Benzo[b]fluoranthene	<0.038		1.56	1.44		mg/Kg	☼	92	69 - 129
Benzo[k]fluoranthene	<0.038		1.56	1.43		mg/Kg	☼	92	68 - 127
Benzo[a]pyrene	<0.038		1.56	1.64		mg/Kg	☼	105	65 - 133
Indeno[1,2,3-cd]pyrene	<0.038		1.56	1.48		mg/Kg	☼	95	68 - 130
Dibenz(a,h)anthracene	<0.038		1.56	1.53		mg/Kg	☼	99	64 - 131
Benzo[g,h,i]perylene	<0.038		1.56	1.44		mg/Kg	☼	92	72 - 131
3 & 4 Methylphenol	<0.19		1.56	1.30		mg/Kg	☼	83	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*78*		*31 - 166*
Phenol-d5	*75*		*30 - 153*
Nitrobenzene-d5	*70*		*37 - 147*
2-Fluorobiphenyl	*91*		*43 - 145*
2,4,6-Tribromophenol	*110*		*31 - 143*
Terphenyl-d14	*81*		*42 - 157*

Lab Sample ID: 500-198664-5 MSD **Client Sample ID: 3530-35-B02 (6-12)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598520 **Prep Batch: 598455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.19		1.55	1.23		mg/Kg	☼	79	56 - 122	3	30
Bis(2-chloroethyl)ether	<0.19		1.55	1.07		mg/Kg	☼	69	55 - 111	7	30
1,3-Dichlorobenzene	<0.19		1.55	1.06		mg/Kg	☼	68	60 - 110	6	30
1,4-Dichlorobenzene	<0.19		1.55	1.12		mg/Kg	☼	72	61 - 110	7	30
1,2-Dichlorobenzene	<0.19		1.55	1.17		mg/Kg	☼	76	62 - 110	4	30
2-Methylphenol	<0.19		1.55	1.44		mg/Kg	☼	93	60 - 120	2	30

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

Lab Sample ID: 500-198664-5 MSD
Matrix: Solid
Analysis Batch: 598520

Client Sample ID: 3530-35-B02 (6-12)
Prep Type: Total/NA
Prep Batch: 598455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	<0.19		1.55	0.908		mg/Kg	☼	59	40 - 124	0	30
N-Nitrosodi-n-propylamine	<0.078		1.55	1.01		mg/Kg	☼	65	56 - 118	3	30
Hexachloroethane	<0.19		1.55	1.02		mg/Kg	☼	66	60 - 114	4	30
2-Chlorophenol	<0.19		1.55	1.31		mg/Kg	☼	85	64 - 110	3	30
Nitrobenzene	<0.038		1.55	1.08		mg/Kg	☼	70	60 - 116	2	30
Bis(2-chloroethoxy)methane	<0.19		1.55	1.16		mg/Kg	☼	75	60 - 112	1	30
1,2,4-Trichlorobenzene	<0.19		1.55	1.36		mg/Kg	☼	88	66 - 117	4	30
Isophorone	<0.19		1.55	1.12		mg/Kg	☼	72	55 - 110	0	30
2,4-Dimethylphenol	<0.38		1.55	1.25		mg/Kg	☼	81	60 - 110	0	30
Hexachlorobutadiene	<0.19		1.55	1.45		mg/Kg	☼	94	56 - 120	5	30
Naphthalene	<0.038		1.55	1.28		mg/Kg	☼	82	63 - 110	4	30
2,4-Dichlorophenol	<0.38		1.55	1.48		mg/Kg	☼	96	58 - 120	1	30
4-Chloroaniline	<0.78		1.55	1.62		mg/Kg	☼	104	30 - 150	2	30
2,4,6-Trichlorophenol	<0.38		1.55	1.53		mg/Kg	☼	99	57 - 120	3	30
2,4,5-Trichlorophenol	<0.38		1.55	1.63		mg/Kg	☼	105	50 - 120	3	30
Hexachlorocyclopentadiene	<0.78		1.55	1.00		mg/Kg	☼	65	10 - 133	5	30
2-Methylnaphthalene	<0.078		1.55	1.30		mg/Kg	☼	84	69 - 112	2	30
2-Nitroaniline	<0.19		1.55	1.13		mg/Kg	☼	73	57 - 124	0	30
2-Chloronaphthalene	<0.19		1.55	1.38		mg/Kg	☼	89	69 - 114	0	30
4-Chloro-3-methylphenol	<0.38		1.55	1.35		mg/Kg	☼	87	65 - 122	1	30
2,6-Dinitrotoluene	<0.19		1.55	1.47		mg/Kg	☼	95	70 - 123	2	30
2-Nitrophenol	<0.38		1.55	1.30		mg/Kg	☼	84	60 - 120	1	30
3-Nitroaniline	<0.38	F1	1.55	3.76	E F1	mg/Kg	☼	243	40 - 122	2	30
Dimethyl phthalate	<0.19		1.55	1.40		mg/Kg	☼	91	69 - 116	0	30
2,4-Dinitrophenol	<0.78	F2	3.10	0.768	J F2	mg/Kg	☼	25	10 - 100	60	30
Acenaphthylene	<0.038		1.55	1.45		mg/Kg	☼	94	68 - 120	2	30
2,4-Dinitrotoluene	<0.19		1.55	1.53		mg/Kg	☼	99	69 - 124	1	30
Acenaphthene	<0.038		1.55	1.42		mg/Kg	☼	92	65 - 124	1	30
Dibenzofuran	<0.19		1.55	1.40		mg/Kg	☼	90	66 - 115	1	30
4-Nitrophenol	<0.78		3.10	3.38		mg/Kg	☼	109	30 - 122	0	30
Fluorene	<0.038		1.55	1.39		mg/Kg	☼	90	62 - 120	1	30
4-Nitroaniline	<0.38		1.55	1.85		mg/Kg	☼	119	60 - 160	1	30
4-Bromophenyl phenyl ether	<0.19		1.55	1.44		mg/Kg	☼	93	68 - 118	1	30
Hexachlorobenzene	<0.078		1.55	1.59		mg/Kg	☼	102	63 - 124	0	30
Diethyl phthalate	<0.19		1.55	1.41		mg/Kg	☼	91	58 - 120	1	30
4-Chlorophenyl phenyl ether	<0.19		1.55	1.48		mg/Kg	☼	95	62 - 119	1	30
Pentachlorophenol	<0.78		3.10	2.36		mg/Kg	☼	76	13 - 112	14	30
N-Nitrosodiphenylamine	<0.19	F1	1.55	1.79	F1	mg/Kg	☼	115	65 - 112	0	30
4,6-Dinitro-2-methylphenol	<0.78	F2	3.10	1.55	F2	mg/Kg	☼	50	10 - 110	43	30
Phenanthrene	<0.038		1.55	1.40		mg/Kg	☼	90	62 - 120	0	30
Anthracene	<0.038		1.55	1.40		mg/Kg	☼	91	70 - 114	0	30
Carbazole	<0.19	F1	1.55	3.03	E F1	mg/Kg	☼	195	65 - 142	3	30
Di-n-butyl phthalate	<0.19		1.55	1.29		mg/Kg	☼	83	65 - 120	1	30
Fluoranthene	<0.038		1.55	1.51		mg/Kg	☼	98	62 - 120	0	30
Pyrene	<0.038		1.55	1.25		mg/Kg	☼	80	61 - 128	1	30
Butyl benzyl phthalate	<0.19		1.55	1.13		mg/Kg	☼	73	71 - 129	1	30
Benzo[a]anthracene	<0.038		1.55	1.37		mg/Kg	☼	89	67 - 122	0	30
Chrysene	<0.038		1.55	1.43		mg/Kg	☼	92	63 - 120	0	30
3,3'-Dichlorobenzidine	<0.19	F1	1.55	2.01	F1	mg/Kg	☼	130	35 - 128	0	30

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

Lab Sample ID: 500-198664-5 MSD **Client Sample ID: 3530-35-B02 (6-12)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598520 **Prep Batch: 598455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	<0.19		1.55	1.20		mg/Kg	☼	78	72 - 131	0	30
Di-n-octyl phthalate	<0.19		1.55	1.46		mg/Kg	☼	94	68 - 134	0	30
Benzo[b]fluoranthene	<0.038		1.55	1.47		mg/Kg	☼	95	69 - 129	2	30
Benzo[k]fluoranthene	<0.038		1.55	1.38		mg/Kg	☼	89	68 - 127	3	30
Benzo[a]pyrene	<0.038		1.55	1.63		mg/Kg	☼	105	65 - 133	0	30
Indeno[1,2,3-cd]pyrene	<0.038		1.55	1.48		mg/Kg	☼	96	68 - 130	0	30
Dibenz(a,h)anthracene	<0.038		1.55	1.54		mg/Kg	☼	99	64 - 131	1	30
Benzo[g,h,i]perylene	<0.038		1.55	1.43		mg/Kg	☼	92	72 - 131	0	30
3 & 4 Methylphenol	<0.19		1.55	1.34		mg/Kg	☼	87	57 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*80*		*31 - 166*
Phenol-d5	*80*		*30 - 153*
Nitrobenzene-d5	*70*		*37 - 147*
2-Fluorobiphenyl	*91*		*43 - 145*
2,4,6-Tribromophenol	*113*		*31 - 143*
Terphenyl-d14	*82*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-599350/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 599693 **Prep Batch: 599350**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			0.0500	0.0495		mg/L		99	80 - 120		
Lead			0.100	0.0987		mg/L		99	80 - 120		

Lab Sample ID: LB 500-599152/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: SPLP East**
Analysis Batch: 599693 **Prep Batch: 599350**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 18:03	05/18/21 11:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/17/21 18:03	05/18/21 11:43	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-597813/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598495 **Prep Batch: 597813**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Barium	<1.0		1.0	0.11	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Boron	<5.0		5.0	0.47	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Cadmium	0.0423	J	0.20	0.036	mg/Kg		05/10/21 09:17	05/12/21 19:03	1

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

Lab Sample ID: MB 500-597813/1-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	29.0		20	3.4	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Copper	<1.0		1.0	0.28	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Iron	10.8	J	20	10	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Lead	<0.50		0.50	0.23	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Magnesium	5.09	J	10	5.0	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Manganese	0.281	J	1.0	0.15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Potassium	<50		50	18	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Silver	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Sodium	15.5	J	100	15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Zinc	1.03	J	2.0	0.88	mg/Kg		05/10/21 09:17	05/12/21 19:03	1

Lab Sample ID: LCS 500-597813/2-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		mg/Kg		102	80 - 120
Arsenic	10.0	9.73		mg/Kg		97	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.82		mg/Kg		96	80 - 120
Boron	100	89.0		mg/Kg		89	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	114		mg/Kg		114	80 - 120
Lead	10.0	9.52		mg/Kg		95	80 - 120
Magnesium	1000	970		mg/Kg		97	80 - 120
Manganese	50.0	48.3		mg/Kg		97	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	9.12		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	9.54		mg/Kg		95	80 - 120
Vanadium	50.0	50.1		mg/Kg		100	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120

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

Lab Sample ID: 500-198664-1 MS **Client Sample ID: 3530-35-B03 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598495 **Prep Batch: 597813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.1	J F1	29.0	8.40	F1	mg/Kg	☼	25	75 - 125
Arsenic	12	F1	5.80	18.2		mg/Kg	☼	110	75 - 125
Barium	240	F1	116	331		mg/Kg	☼	78	75 - 125
Beryllium	0.92		2.90	3.43		mg/Kg	☼	86	75 - 125
Boron	25	F1	58.0	78.5		mg/Kg	☼	93	75 - 125
Cadmium	1.4	B	2.90	4.23		mg/Kg	☼	97	75 - 125
Calcium	13000	F2 B	580	15200	4	mg/Kg	☼	311	75 - 125
Chromium	14		11.6	27.3		mg/Kg	☼	117	75 - 125
Cobalt	8.8		29.0	37.0		mg/Kg	☼	97	75 - 125
Copper	39	F1 F2	14.5	54.7		mg/Kg	☼	106	75 - 125
Iron	22000	F2 B	58.0	21700	4	mg/Kg	☼	-460	75 - 125
Lead	250		5.80	303	4	mg/Kg	☼	959	75 - 125
Magnesium	1500	F1 F2 B	580	3150	F1	mg/Kg	☼	284	75 - 125
Manganese	790	F2 B	29.0	756	4	mg/Kg	☼	-106	75 - 125
Nickel	17		29.0	48.0		mg/Kg	☼	105	75 - 125
Potassium	1100	F1	580	1930	F1	mg/Kg	☼	146	75 - 125
Selenium	1.1	F1	5.80	5.13	F1	mg/Kg	☼	69	75 - 125
Silver	0.83		2.90	3.62		mg/Kg	☼	96	75 - 125
Sodium	410	B	580	1010		mg/Kg	☼	103	75 - 125
Thallium	1.8		5.80	6.64		mg/Kg	☼	84	75 - 125
Vanadium	29		29.0	59.3		mg/Kg	☼	106	75 - 125
Zinc	470	F2 B ^2	29.0	644	4	mg/Kg	☼	596	75 - 125

Lab Sample ID: 500-198664-1 MSD **Client Sample ID: 3530-35-B03 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598495 **Prep Batch: 597813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.1	J F1	28.9	8.37	F1	mg/Kg	☼	25	75 - 125	0	20
Arsenic	12	F1	5.79	14.9	F1	mg/Kg	☼	54	75 - 125	20	20
Barium	240	F1	116	272	F1	mg/Kg	☼	28	75 - 125	20	20
Beryllium	0.92		2.89	3.23		mg/Kg	☼	80	75 - 125	6	20
Boron	25	F1	57.9	67.6	F1	mg/Kg	☼	74	75 - 125	15	20
Cadmium	1.4	B	2.89	3.83		mg/Kg	☼	83	75 - 125	10	20
Calcium	13000	F2 B	579	23000	4 F2	mg/Kg	☼	1656	75 - 125	41	20
Chromium	14		11.6	24.9		mg/Kg	☼	97	75 - 125	9	20
Cobalt	8.8		28.9	36.4		mg/Kg	☼	95	75 - 125	1	20
Copper	39	F1 F2	14.5	44.5	F1 F2	mg/Kg	☼	36	75 - 125	21	20
Iron	22000	F2 B	57.9	17000	4 F2	mg/Kg	☼	-8655	75 - 125	25	20
Lead	250		5.79	265	4	mg/Kg	☼	304	75 - 125	13	20
Magnesium	1500	F1 F2 B	579	2430	F1 F2	mg/Kg	☼	160	75 - 125	26	20
Manganese	790	F2 B	28.9	488	4 F2	mg/Kg	☼	-1032	75 - 125	43	20
Nickel	17		28.9	46.0		mg/Kg	☼	98	75 - 125	4	20
Potassium	1100	F1	579	1880	F1	mg/Kg	☼	137	75 - 125	3	20
Selenium	1.1	F1	5.79	4.89	F1	mg/Kg	☼	65	75 - 125	5	20
Silver	0.83		2.89	3.52		mg/Kg	☼	93	75 - 125	3	20
Sodium	410	B	579	983		mg/Kg	☼	99	75 - 125	2	20
Thallium	1.8		5.79	6.26		mg/Kg	☼	77	75 - 125	6	20
Vanadium	29		28.9	55.3		mg/Kg	☼	92	75 - 125	7	20

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

Lab Sample ID: 500-198664-1 MSD
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: 3530-35-B03 (0-6)
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	470	F2 B ^2	28.9	423	4 F2	mg/Kg	☼	-167	75 - 125	41	20

Lab Sample ID: 500-198664-1 DU
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: 3530-35-B03 (0-6)
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	1.1	J F1	0.793	J F5	mg/Kg	☼	33	20
Arsenic	12	F1	9.73		mg/Kg	☼	20	20
Barium	240	F1	173	F3	mg/Kg	☼	32	20
Beryllium	0.92		0.779		mg/Kg	☼	17	20
Boron	25	F1	19.3	F3	mg/Kg	☼	24	20
Cadmium	1.4	B	1.32		mg/Kg	☼	7	20
Calcium	13000	F2 B	32100	F3	mg/Kg	☼	82	20
Chromium	14		12.9		mg/Kg	☼	6	20
Cobalt	8.8		7.32		mg/Kg	☼	19	20
Copper	39	F1 F2	33.8		mg/Kg	☼	15	20
Iron	22000	F2 B	17200	F3	mg/Kg	☼	24	20
Lead	250		243		mg/Kg	☼	2	20
Magnesium	1500	F1 F2 B	6550	F3	mg/Kg	☼	125	20
Manganese	790	F2 B	741		mg/Kg	☼	6	20
Nickel	17		15.0		mg/Kg	☼	15	20
Potassium	1100	F1	972		mg/Kg	☼	11	20
Selenium	1.1	F1	0.870	F5	mg/Kg	☼	26	20
Silver	0.83		1.01		mg/Kg	☼	19	20
Sodium	410	B	384		mg/Kg	☼	7	20
Thallium	1.8		1.44	F5	mg/Kg	☼	21	20
Vanadium	29		23.8		mg/Kg	☼	18	20
Zinc	470	F2 B ^2	386		mg/Kg	☼	20	20

Lab Sample ID: LCS 500-599348/2-A
Matrix: Solid
Analysis Batch: 599696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.527		mg/L		105	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Boron	1.00	0.900		mg/L		90	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.532		mg/L		106	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Nickel	0.500	0.527		mg/L		105	80 - 120
Selenium	0.100	0.113		mg/L		113	80 - 120
Silver	0.0500	0.0568		mg/L		114	80 - 120
Zinc	0.500	0.582		mg/L		116	80 - 120

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

Lab Sample ID: LB 500-599142/1-C
Matrix: Solid
Analysis Batch: 599696

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 599348

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/21 17:59	05/18/21 12:55	1
Boron	<0.50		0.50	0.050	mg/L		05/17/21 17:59	05/18/21 12:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/21 17:59	05/18/21 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 12:55	1
Cobalt	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 12:55	1
Iron	<0.40		0.40	0.20	mg/L		05/17/21 17:59	05/18/21 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/17/21 17:59	05/18/21 12:55	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 12:55	1
Selenium	<0.050		0.050	0.020	mg/L		05/17/21 17:59	05/18/21 12:55	1
Silver	<0.025		0.025	0.010	mg/L		05/17/21 17:59	05/18/21 12:55	1
Zinc	<0.50		0.50	0.020	mg/L		05/17/21 17:59	05/18/21 12:55	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-599348/2-A
Matrix: Solid
Analysis Batch: 599793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.457		mg/L		91	80 - 120
Thallium	0.100	0.0984		mg/L		98	80 - 120

Lab Sample ID: LB 500-599142/1-C
Matrix: Solid
Analysis Batch: 599793

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 599348

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/17/21 17:59	05/19/21 13:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/21 17:59	05/19/21 13:58	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-599285/12-A
Matrix: Solid
Analysis Batch: 599517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 08:54	1

Lab Sample ID: LCS 500-599285/14-A
Matrix: Solid
Analysis Batch: 599517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00222		mg/L		111	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-599142/1-B
Matrix: Solid
Analysis Batch: 599517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 599285

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/17/21 13:00	05/18/21 08:56	1

Lab Sample ID: 500-198664-7 MS
Matrix: Solid
Analysis Batch: 599517

Client Sample ID: 3530-35-B01 (6-12)
Prep Type: TCLP
Prep Batch: 599285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000949		mg/L		95	75 - 125

Lab Sample ID: 500-198664-7 DU
Matrix: Solid
Analysis Batch: 599517

Client Sample ID: 3530-35-B01 (6-12)
Prep Type: TCLP
Prep Batch: 599285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-598341/12-A
Matrix: Solid
Analysis Batch: 598607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/12/21 14:05	05/13/21 09:16	1

Lab Sample ID: LCS 500-598341/13-A
Matrix: Solid
Analysis Batch: 598607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.186		mg/Kg		112	80 - 120

Client Sample ID: 3530-35-B03 (0-6) Lab Sample ID: 500-198664-1

Date Collected: 05/04/21 08:30 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			599152	05/14/21 16:38	CMS	TAL CHI
SPLP East	Prep	3010A			599350	05/17/21 18:03	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599693	05/18/21 11:55	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 13:42	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:00	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:00	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:10	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B03 (0-6) Lab Sample ID: 500-198664-1

Date Collected: 05/04/21 08:30 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 80.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 13:56	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598721	05/14/21 03:27	SS	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:10	EEN	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		5	598607	05/13/21 10:08	MJG	TAL CHI

Client Sample ID: 3530-35-B03 (6-12) Lab Sample ID: 500-198664-2

Date Collected: 05/04/21 08:40 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 13:46	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:01	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:02	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:15	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B03 (6-12)

Lab Sample ID: 500-198664-2

Date Collected: 05/04/21 08:40

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 14:22	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 10:19	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:33	EEN	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:21	MJG	TAL CHI

Client Sample ID: 3530-35-B03 (6-12)D

Lab Sample ID: 500-198664-3

Date Collected: 05/04/21 08:40

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 13:50	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:02	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:17	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B03 (6-12)D

Lab Sample ID: 500-198664-3

Date Collected: 05/04/21 08:40

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 14:48	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 10:41	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:36	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		5	598684	05/13/21 11:43	JJB	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:24	MJG	TAL CHI

Client Sample ID: 3530-35-B02 (0-6)

Lab Sample ID: 500-198664-4

Date Collected: 05/04/21 08:50

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			599152	05/14/21 16:38	CMS	TAL CHI
SPLP East	Prep	3010A			599350	05/17/21 18:03	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599693	05/18/21 12:05	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599791	05/19/21 12:04	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 13:53	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:03	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B02 (0-6)

Lab Sample ID: 500-198664-4

Date Collected: 05/04/21 08:50

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597033	05/04/21 08:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	599031	05/15/21 15:42	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 18:09	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:39	EEN	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		2	598607	05/13/21 10:10	MJG	TAL CHI

Client Sample ID: 3530-35-B02 (6-12)

Lab Sample ID: 500-198664-5

Date Collected: 05/04/21 09:00

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			599152	05/14/21 16:38	CMS	TAL CHI
SPLP East	Prep	3010A			599350	05/17/21 18:03	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599693	05/18/21 12:08	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 13:57	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:04	FXG	TAL CHI

Client Sample ID: 3530-35-B02 (6-12)

Lab Sample ID: 500-198664-5
Date Collected: 05/04/21 09:00
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B02 (6-12)

Lab Sample ID: 500-198664-5
Date Collected: 05/04/21 09:00
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 15:14	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 11:02	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:43	EEN	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:28	MJG	TAL CHI

Client Sample ID: 3530-35-B01 (0-6)

Lab Sample ID: 500-198664-6
Date Collected: 05/04/21 09:20
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			599152	05/14/21 16:38	CMS	TAL CHI
SPLP East	Prep	3010A			599350	05/17/21 18:03	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599693	05/18/21 12:11	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 14:01	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:06	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:25	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198664-1

Client Sample ID: 3530-35-B01 (0-6)

Date Collected: 05/04/21 09:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-6

Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 15:40	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598721	05/14/21 03:48	SS	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:46	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598684	05/13/21 11:47	JJB	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:30	MJG	TAL CHI

Client Sample ID: 3530-35-B01 (6-12)

Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6010B		1	599696	05/18/21 14:04	JJB	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	3010A			599348	05/17/21 17:59	LMN	TAL CHI
TCLP	Analysis	6020A		1	599793	05/19/21 14:07	FXG	TAL CHI
TCLP	Leach	1311			599142	05/14/21 16:38	CMS	TAL CHI
TCLP	Prep	7470A			599285	05/17/21 13:00	MJG	TAL CHI
TCLP	Analysis	7470A		1	599517	05/18/21 09:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:27	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-35-B01 (6-12)

Date Collected: 05/04/21 09:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198664-7

Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 16:05	PMF	TAL CHI
Total/NA	Prep	3541			598455	05/12/21 20:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 11:23	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:50	EEN	TAL CHI
Total/NA	Prep	7471B			598341	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:37	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198664-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International inc.	PWSID:			Job #: 500-198664

Address: 33 West Monroe Street, Suite 1825	Due Date Requested:	Analysis Requested
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesigni com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #:	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198664 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
1	3530-~~B03~~ WF 35-B03(0-6)	5-4-21	0830	G	S			X	X	X	X	X	X		
2	-B03(6-12)		0840												
3	-B03(6-12)D		0840												
4	-B02(0-6)		0850												
5	-B02(6-12)		0900												
6	-B01(0-6)		0920												
7	-B01(6-12		0930												

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	MFS	5-5-21 1330	EDI	Allison Scott	5/5/21 1330	ETACHL
2	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.3-75.1

Ver: 01/16/2019

5/19/2021

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198664-1

Login Number: 198664 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198579-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/18/2021 2:13:19 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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Case Narrative

Client: Environmental Design International, Inc. Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198579-1

Receipt
The samples were received on 5/4/2021 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
Method 8260B: The laboratory control sample duplicate (LCSD) for 596845 recovered outside control limits for Carbon tetrachloride. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.3530-37-B01 (0-6) (500-198579-1), 3530-37-B01 (6-12) (500-198579-2), 3530-37-B02 (0-6) (500-198579-3) and 3530-37-B02 (6-12) (500-198579-4)

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

GC/MS Semi VOA
Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-598177 and analytical batch 500-598289 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

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

Metals
Method 6020A: The initial calibration verification (ICV) result for batch 500-598615 was above the upper control limit for Antimony. Sample results were non-detects, and have been reported as qualified data.

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (0-6)

Lab Sample ID: 500-198579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0074	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.035	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0094	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	4.2		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	24	4.0	mg/Kg	2	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.59	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	12		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	78		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	920		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.69		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.79		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	1.7		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.58	B	0.036	0.012	mg/Kg	2	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-37-B01 (6-12)

Lab Sample ID: 500-198579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.72	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	9.0		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-37-B01 (6-12) (Continued) Lab Sample ID: 500-198579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	1400		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	590		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	58		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036	B	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-37-B02 (0-6) Lab Sample ID: 500-198579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.64	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.64	0.073	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0	J	3.2	0.30	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.64	0.17	mg/Kg	2	☼	6010B	Total/NA
Copper	8.5		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		13	6.6	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1900		6.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.64	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.64	0.19	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		32	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62	J	0.64	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.38		0.32	0.082	mg/Kg	1	☼	6010B	Total/NA
Sodium	87		64	9.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.32	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.3	0.56	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.11	B	0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	5.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-37-B02 (6-12) Lab Sample ID: 500-198579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.79	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.9		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-37-B02 (6-12) (Continued) Lab Sample ID: 500-198579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.67		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.027	J	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	1300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	8.5		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	670		30	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	88		60	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.95		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J F1	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.064	B	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	5.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc. Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198579-1	3530-37-B01 (0-6)	Solid	05/03/21 16:15	05/04/21 11:30	
500-198579-2	3530-37-B01 (6-12)	Solid	05/03/21 16:25	05/04/21 11:30	
500-198579-3	3530-37-B02 (0-6)	Solid	05/03/21 16:40	05/04/21 11:30	
500-198579-4	3530-37-B02 (6-12)	Solid	05/03/21 16:50	05/04/21 11:30	

Client: Environmental Design International, Inc.
Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-37-B01 (0-6)
Lab Sample ID: 500-198579-1
Date Collected: 05/03/21 16:15
Matrix: Solid
Date Received: 05/04/21 11:30
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0085	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Carbon tetrachloride	<0.0020	*+	0.0020	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	05/04/21 17:51	05/05/21 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*05/04/21 17:51*	*05/05/21 16:12*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/04/21 17:51*	*05/05/21 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/04/21 17:51*	*05/05/21 16:12*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/04/21 17:51*	*05/05/21 16:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (0-6)
Date Collected: 05/03/21 16:15
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-1
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Naphthalene	**0.0074**	**J**	0.039	0.0060	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Methylnaphthalene	**0.016**	**J**	0.079	0.0072	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Phenanthrene	**0.035**	**J**	0.039	0.0055	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Fluoranthene	**0.018**	**J**	0.039	0.0073	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Pyrene	**0.019**	**J**	0.039	0.0078	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Benzo[a]anthracene	**0.0094**	**J**	0.039	0.0053	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1

Client Sample ID: 3530-37-B01 (0-6)
Date Collected: 05/03/21 16:15
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-1
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.018**	**J**	0.039	0.011	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Benzo[b]fluoranthene	**0.019**	**J**	0.039	0.0085	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Benzo[a]pyrene	**0.012**	**J**	0.039	0.0076	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/11/21 20:00	05/12/21 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*73*		*31 - 166*	*05/11/21 20:00*	*05/12/21 21:05*	*1*
Phenol-d5	*69*		*30 - 153*	*05/11/21 20:00*	*05/12/21 21:05*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*05/11/21 20:00*	*05/12/21 21:05*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*05/11/21 20:00*	*05/12/21 21:05*	*1*
2,4,6-Tribromophenol	*68*		*31 - 143*	*05/11/21 20:00*	*05/12/21 21:05*	*1*
Terphenyl-d14	*84*		*42 - 157*	*05/11/21 20:00*	*05/12/21 21:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Arsenic	**4.7**		0.59	0.20	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Barium	**120**		0.59	0.067	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Beryllium	**0.63**		0.24	0.055	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Boron	**4.2**		2.9	0.27	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Cadmium	**0.10**	**J**	0.12	0.021	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Calcium	**59000**	**B**	24	4.0	mg/Kg	☼	05/10/21 17:32	05/12/21 10:06	2
Chromium	**14**		0.59	0.29	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Cobalt	**16**		0.59	0.15	mg/Kg	☼	05/10/21 17:32	05/12/21 10:06	2
Copper	**12**		0.59	0.16	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Iron	**12000**		12	6.1	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Lead	**78**		0.29	0.14	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Magnesium	**3800**		5.9	2.9	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Manganese	**280**		0.59	0.085	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Nickel	**15**		0.59	0.17	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Potassium	**920**		29	10	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Silver	**0.69**		0.29	0.076	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Sodium	**110**		59	8.7	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Thallium	**0.79**		0.59	0.29	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Vanadium	**24**		0.29	0.069	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1
Zinc	**70**		1.2	0.52	mg/Kg	☼	05/10/21 17:32	05/11/21 14:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.7**		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 13:20	1
Boron	**0.11**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 13:20	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (0-6)
Date Collected: 05/03/21 16:15
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-1
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 13:20	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:20	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:20	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 13:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 13:20	1
Nickel	**0.016**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 13:20	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:20	1
Zinc	**0.11**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.58**	**B**	0.036	0.012	mg/Kg	☼	05/07/21 14:20	05/10/21 08:51	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			05/07/21 19:00	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (6-12)
Date Collected: 05/03/21 16:25
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-2
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00050	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*	*05/04/21 17:51*	*05/05/21 16:38*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/04/21 17:51*	*05/05/21 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*05/04/21 17:51*	*05/05/21 16:38*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/04/21 17:51*	*05/05/21 16:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1

Client: Environmental Design International, Inc.
Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-37-B01 (6-12)
Lab Sample ID: 500-198579-2
Date Collected: 05/03/21 16:25
Matrix: Solid
Date Received: 05/04/21 11:30
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1

Client Sample ID: 3530-37-B01 (6-12)
Date Collected: 05/03/21 16:25
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-2
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/11/21 20:00	05/12/21 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*112*		*31 - 166*	*05/11/21 20:00*	*05/12/21 14:29*	*1*
Phenol-d5	*100*		*30 - 153*	*05/11/21 20:00*	*05/12/21 14:29*	*1*
Nitrobenzene-d5	*102*		*37 - 147*	*05/11/21 20:00*	*05/12/21 14:29*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/11/21 20:00*	*05/12/21 14:29*	*1*
2,4,6-Tribromophenol	*90*		*31 - 143*	*05/11/21 20:00*	*05/12/21 14:29*	*1*
Terphenyl-d14	*104*		*42 - 157*	*05/11/21 20:00*	*05/12/21 14:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.72**	**J**	1.2	0.22	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Arsenic	**6.2**		0.58	0.20	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Barium	**64**		0.58	0.066	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Beryllium	**0.76**		0.23	0.054	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Boron	**1.1**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Calcium	**1900**	**B**	12	2.0	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Chromium	**17**		0.58	0.29	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Cobalt	**8.1**		0.29	0.076	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Copper	**9.0**		0.58	0.16	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Iron	**16000**		12	6.0	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Lead	**10**		0.29	0.13	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Magnesium	**1400**		5.8	2.9	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Manganese	**360**		0.58	0.084	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Nickel	**14**		0.58	0.17	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Potassium	**590**		29	10	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Silver	**0.33**		0.29	0.074	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Sodium	**58**		58	8.5	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Thallium	**1.0**		0.58	0.29	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Vanadium	**31**		0.29	0.068	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1
Zinc	**33**		1.2	0.51	mg/Kg	☼	05/10/21 17:32	05/11/21 14:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.35**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:37	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:37	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (6-12)

Date Collected: 05/03/21 16:25
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-2

Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:37	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:37	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:37	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:37	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:37	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:37	1
Zinc	**0.021**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**	**B**	0.017	0.0058	mg/Kg	☼	05/07/21 14:20	05/10/21 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			05/07/21 19:03	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B02 (0-6)
Date Collected: 05/03/21 16:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-3
Matrix: Solid
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*05/04/21 17:51*	*05/05/21 17:04*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*05/04/21 17:51*	*05/05/21 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/04/21 17:51*	*05/05/21 17:04*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*05/04/21 17:51*	*05/05/21 17:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B02 (0-6)
Date Collected: 05/03/21 16:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-3
Matrix: Solid
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4-Dinitrophenol	<0.84	*-	0.84	0.74	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1

Client Sample ID: 3530-37-B02 (0-6)
Date Collected: 05/03/21 16:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-3
Matrix: Solid
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/11/21 20:00	05/12/21 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*112*		*31 - 166*	*05/11/21 20:00*	*05/12/21 14:50*	*1*
Phenol-d5	*110*		*30 - 153*	*05/11/21 20:00*	*05/12/21 14:50*	*1*
Nitrobenzene-d5	*84*		*37 - 147*	*05/11/21 20:00*	*05/12/21 14:50*	*1*
2-Fluorobiphenyl	*71*		*43 - 145*	*05/11/21 20:00*	*05/12/21 14:50*	*1*
2,4,6-Tribromophenol	*97*		*31 - 143*	*05/11/21 20:00*	*05/12/21 14:50*	*1*
Terphenyl-d14	*94*		*42 - 157*	*05/11/21 20:00*	*05/12/21 14:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.57**	**J**	1.3	0.25	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Arsenic	**13**		0.64	0.22	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Barium	**60**		0.64	0.073	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Beryllium	**0.59**		0.25	0.060	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Boron	**3.0**	**J**	3.2	0.30	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Calcium	**1500**	**B**	13	2.2	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Chromium	**16**		0.64	0.32	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Cobalt	**8.8**		0.64	0.17	mg/Kg	☼	05/10/21 17:32	05/12/21 10:09	2
Copper	**8.5**		0.64	0.18	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Iron	**17000**		13	6.6	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Lead	**26**		0.32	0.15	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Magnesium	**1900**		6.4	3.2	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Manganese	**420**		0.64	0.092	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Nickel	**12**		0.64	0.19	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Potassium	**1200**		32	11	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Selenium	**0.62**	**J**	0.64	0.37	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Silver	**0.38**		0.32	0.082	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Sodium	**87**		64	9.4	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Thallium	**1.2**		0.64	0.32	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Vanadium	**35**		0.32	0.075	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1
Zinc	**45**		1.3	0.56	mg/Kg	☼	05/10/21 17:32	05/11/21 15:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.36**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:40	1
Boron	**0.20**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:40	1

Client: Environmental Design International, Inc.
Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-37-B02 (0-6)
Lab Sample ID: 500-198579-3
Date Collected: 05/03/21 16:40
Matrix: Solid
Date Received: 05/04/21 11:30
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:40	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:40	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:40	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:40	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:40	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:40	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:40	1
Zinc	**0.029**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**B**	0.020	0.0066	mg/Kg	☼	05/07/21 14:20	05/10/21 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.1**		0.2	0.2	SU			05/07/21 19:05	1

Client Sample ID: 3530-37-B02 (6-12)
Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00050	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/04/21 17:51*	*05/05/21 17:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/04/21 17:51*	*05/05/21 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*05/04/21 17:51*	*05/05/21 17:30*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/04/21 17:51*	*05/05/21 17:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B02 (6-12)
Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4-Dinitrophenol	<0.77	*-	0.77	0.67	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1

Client Sample ID: 3530-37-B02 (6-12)
Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/11/21 20:00	05/12/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*110*		*31 - 166*	*05/11/21 20:00*	*05/12/21 15:11*	*1*
Phenol-d5	*100*		*30 - 153*	*05/11/21 20:00*	*05/12/21 15:11*	*1*
Nitrobenzene-d5	*92*		*37 - 147*	*05/11/21 20:00*	*05/12/21 15:11*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*05/11/21 20:00*	*05/12/21 15:11*	*1*
2,4,6-Tribromophenol	*58*		*31 - 143*	*05/11/21 20:00*	*05/12/21 15:11*	*1*
Terphenyl-d14	*96*		*42 - 157*	*05/11/21 20:00*	*05/12/21 15:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.79**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Arsenic	**4.9**		0.60	0.20	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Barium	**88**		0.60	0.068	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Beryllium	**0.67**		0.24	0.056	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Boron	**1.8**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Cadmium	**0.027**	**J**	0.12	0.022	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Calcium	**1300**	**B**	12	2.0	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Chromium	**16**		0.60	0.30	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Cobalt	**12**		0.30	0.078	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Copper	**8.5**		0.60	0.17	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Iron	**15000**		12	6.2	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Lead	**12**		0.30	0.14	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Magnesium	**1600**		6.0	3.0	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Manganese	**470**		0.60	0.087	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Nickel	**20**		0.60	0.17	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Potassium	**670**		30	11	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Silver	**0.31**		0.30	0.077	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Sodium	**88**		60	8.8	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Thallium	**0.95**		0.60	0.30	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Vanadium	**27**		0.30	0.071	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1
Zinc	**31**		1.2	0.52	mg/Kg	☼	05/10/21 17:32	05/11/21 15:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.43**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:44	1
Boron	**0.23**	**J F1**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:44	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B02 (6-12)
Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:44	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:44	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:44	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:44	1
Nickel	**0.042**		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:44	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:44	1
Zinc	<0.50		0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**	**B**	0.019	0.0065	mg/Kg	☼	05/07/21 14:20	05/10/21 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.6**		0.2	0.2	SU			05/07/21 19:07	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Environmental Design International, Inc. Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

GC/MS VOA

Prep Batch: 596828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	5035	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	5035	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	5035	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 596845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	8260B	596828
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	8260B	596828
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	8260B	596828
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	8260B	596828
MB 500-596845/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-596845/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-596845/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 598177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	3541	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	3541	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	3541	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	3541	
MB 500-598177/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-598177/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 598289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-598177/1-A	Method Blank	Total/NA	Solid	8270D	598177
LCS 500-598177/2-A	Lab Control Sample	Total/NA	Solid	8270D	598177

Analysis Batch: 598295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	8270D	598177
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	8270D	598177
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	8270D	598177

Analysis Batch: 598309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	8270D	598177

Metals

Prep Batch: 597457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	7471B	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	7471B	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	7471B	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	7471B	
MB 500-597457/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-597457/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Metals

Leach Batch: 597741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	1311	
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	1311	
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	1311	
LB 500-597741/1-B	Method Blank	TCLP	Solid	1311	
LB 500-597741/1-C	Method Blank	TCLP	Solid	1311	
500-198579-3 MS	3530-37-B02 (0-6)	TCLP	Solid	1311	
500-198579-4 MS	3530-37-B02 (6-12)	TCLP	Solid	1311	
500-198579-3 DU	3530-37-B02 (0-6)	TCLP	Solid	1311	
500-198579-4 DU	3530-37-B02 (6-12)	TCLP	Solid	1311	

Leach Batch: 597742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	1311	
LB2 500-597742/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-597742/2-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 597816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	7471B	597457
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	7471B	597457
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	7471B	597457
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	7471B	597457
MB 500-597457/12-A	Method Blank	Total/NA	Solid	7471B	597457
LCS 500-597457/13-A	Lab Control Sample	Total/NA	Solid	7471B	597457

Prep Batch: 597920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	3050B	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	3050B	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	3050B	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	3050B	
MB 500-597920/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-597920/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 597928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	3010A	597742
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	3010A	597741
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	3010A	597741
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	3010A	597741
LB 500-597741/1-B	Method Blank	TCLP	Solid	3010A	597741
LB2 500-597742/1-B	Method Blank	TCLP	Solid	3010A	597742
LCS 500-597928/16-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-198579-4 MS	3530-37-B02 (6-12)	TCLP	Solid	3010A	597741
500-198579-4 DU	3530-37-B02 (6-12)	TCLP	Solid	3010A	597741

Prep Batch: 598063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	7470A	597742
LB2 500-597742/2-B	Method Blank	TCLP	Solid	7470A	597742

Metals (Continued)

Prep Batch: 598063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-598063/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598063/37-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 598065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	7470A	597741
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	7470A	597741
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	7470A	597741
LB 500-597741/1-C	Method Blank	TCLP	Solid	7470A	597741
MB 500-598065/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598065/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-198579-3 MS	3530-37-B02 (0-6)	TCLP	Solid	7470A	597741
500-198579-3 DU	3530-37-B02 (0-6)	TCLP	Solid	7470A	597741

Analysis Batch: 598109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	6010B	597928
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	6010B	597928
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	6010B	597928
LB 500-597741/1-B	Method Blank	TCLP	Solid	6010B	597928
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	6010B	597928
500-198579-4 MS	3530-37-B02 (6-12)	TCLP	Solid	6010B	597928
500-198579-4 DU	3530-37-B02 (6-12)	TCLP	Solid	6010B	597928

Analysis Batch: 598227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	6010B	597928
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	6010B	597920
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	6010B	597920
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	6010B	597920
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	6010B	597920
LB2 500-597742/1-B	Method Blank	TCLP	Solid	6010B	597928
MB 500-597920/1-A	Method Blank	Total/NA	Solid	6010B	597920
LCS 500-597920/2-A	Lab Control Sample	Total/NA	Solid	6010B	597920
LCS 500-597928/16-A	Lab Control Sample	Total/NA	Solid	6010B	597928

Analysis Batch: 598335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	7470A	598063
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	7470A	598065
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	7470A	598065
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	7470A	598065
LB 500-597741/1-C	Method Blank	TCLP	Solid	7470A	598065
LB2 500-597742/2-B	Method Blank	TCLP	Solid	7470A	598063
MB 500-598063/12-A	Method Blank	Total/NA	Solid	7470A	598063
MB 500-598065/12-A	Method Blank	Total/NA	Solid	7470A	598065
LCS 500-598063/37-A	Lab Control Sample	Total/NA	Solid	7470A	598063
LCS 500-598065/14-A	Lab Control Sample	Total/NA	Solid	7470A	598065
500-198579-3 MS	3530-37-B02 (0-6)	TCLP	Solid	7470A	598065
500-198579-3 DU	3530-37-B02 (0-6)	TCLP	Solid	7470A	598065

Metals

Analysis Batch: 598347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	6010B	597920
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	6010B	597920

Analysis Batch: 598615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	TCLP	Solid	6020A	597928
500-198579-2	3530-37-B01 (6-12)	TCLP	Solid	6020A	597928
500-198579-3	3530-37-B02 (0-6)	TCLP	Solid	6020A	597928
500-198579-4	3530-37-B02 (6-12)	TCLP	Solid	6020A	597928
LB 500-597741/1-B	Method Blank	TCLP	Solid	6020A	597928
LB2 500-597742/1-B	Method Blank	TCLP	Solid	6020A	597928
LCS 500-597928/16-A	Lab Control Sample	Total/NA	Solid	6020A	597928
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	6020A	597928
500-198579-4 MS	3530-37-B02 (6-12)	TCLP	Solid	6020A	597928
500-198579-4 DU	3530-37-B02 (6-12)	TCLP	Solid	6020A	597928

General Chemistry

Analysis Batch: 597446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	Moisture	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	Moisture	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	Moisture	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	Moisture	

Analysis Batch: 597710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198579-1	3530-37-B01 (0-6)	Total/NA	Solid	9045D	
500-198579-2	3530-37-B01 (6-12)	Total/NA	Solid	9045D	
500-198579-3	3530-37-B02 (0-6)	Total/NA	Solid	9045D	
500-198579-4	3530-37-B02 (6-12)	Total/NA	Solid	9045D	
LCS 500-597710/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597710/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198579-1	3530-37-B01 (0-6)	93	100	91	89
500-198579-2	3530-37-B01 (6-12)	94	100	97	89
500-198579-3	3530-37-B02 (0-6)	93	99	91	90
500-198579-4	3530-37-B02 (6-12)	91	102	95	89
LCS 500-596845/4	Lab Control Sample	83	93	82	92
LCSD 500-596845/5	Lab Control Sample Dup	85	93	81	93
MB 500-596845/7	Method Blank	93	99	88	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198579-1	3530-37-B01 (0-6)	73	69	68	95	68	84
500-198579-2	3530-37-B01 (6-12)	112	100	102	88	90	104
500-198579-3	3530-37-B02 (0-6)	112	110	84	71	97	94
500-198579-4	3530-37-B02 (6-12)	110	100	92	79	58	96
LCS 500-598177/2-A	Lab Control Sample	91	96	91	104	92	98
MB 500-598177/1-A	Method Blank	107	106	103	110	84	144

Surrogate Legend

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

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

Lab Sample ID: MB 500-596845/7
Matrix: Solid
Analysis Batch: 596845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/05/21 13:11	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/05/21 13:11	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/05/21 13:11	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/05/21 13:11	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/05/21 13:11	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/05/21 13:11	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/05/21 13:11	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/05/21 13:11	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/05/21 13:11	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/05/21 13:11	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/05/21 13:11	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/05/21 13:11	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/05/21 13:11	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/05/21 13:11	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/05/21 13:11	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/05/21 13:11	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/05/21 13:11	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/05/21 13:11	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/05/21 13:11	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/05/21 13:11	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/05/21 13:11	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/05/21 13:11	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/05/21 13:11	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/05/21 13:11	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/05/21 13:11	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/05/21 13:11	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/05/21 13:11	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/05/21 13:11	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/05/21 13:11	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/05/21 13:11	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/05/21 13:11	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/05/21 13:11	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/05/21 13:11	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/05/21 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*		*05/05/21 13:11*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*05/05/21 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*		*05/05/21 13:11*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*		*05/05/21 13:11*	*1*

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

Lab Sample ID: LCS 500-596845/4
Matrix: Solid
Analysis Batch: 596845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0368		mg/Kg		74	40 - 150
Benzene	0.0500	0.0589		mg/Kg		118	70 - 125
Bromodichloromethane	0.0500	0.0543		mg/Kg		109	67 - 129
Bromoform	0.0500	0.0523		mg/Kg		105	68 - 136
Bromomethane	0.0500	0.0429		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0351		mg/Kg		70	47 - 138
Carbon disulfide	0.0500	0.0598		mg/Kg		120	70 - 129
Carbon tetrachloride	0.0500	0.0662	*+	mg/Kg		132	75 - 125
Chlorobenzene	0.0500	0.0582		mg/Kg		116	50 - 150
Chloroethane	0.0500	0.0536		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0567		mg/Kg		113	57 - 135
Chloromethane	0.0500	0.0514		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
Dibromochloromethane	0.0500	0.0547		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0500	0.0605		mg/Kg		121	70 - 125
1,2-Dichloroethane	0.0500	0.0502		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0500	0.0575		mg/Kg		115	70 - 120
1,2-Dichloropropane	0.0500	0.0594		mg/Kg		119	70 - 125
Ethylbenzene	0.0500	0.0607		mg/Kg		121	61 - 136
2-Hexanone	0.0500	0.0380		mg/Kg		76	48 - 146
Methylene Chloride	0.0500	0.0504		mg/Kg		101	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0385		mg/Kg		77	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0582		mg/Kg		116	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0599		mg/Kg		120	70 - 124
Toluene	0.0500	0.0583		mg/Kg		117	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0587		mg/Kg		117	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 125
1,1,1-Trichloroethane	0.0500	0.0607		mg/Kg		121	70 - 128
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0610		mg/Kg		122	70 - 125
Vinyl acetate	0.0500	0.0379		mg/Kg		76	40 - 153
Vinyl chloride	0.0500	0.0492		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 134*
Toluene-d8 (Surr)	*92*		*75 - 124*

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

Lab Sample ID: LCSD 500-596845/5
Matrix: Solid
Analysis Batch: 596845

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0326		mg/Kg		65	40 - 150	12	30
Benzene			0.0500	0.0562		mg/Kg		112	70 - 125	5	30
Bromodichloromethane			0.0500	0.0512		mg/Kg		102	67 - 129	6	30
Bromoform			0.0500	0.0490		mg/Kg		98	68 - 136	6	30
Bromomethane			0.0500	0.0397		mg/Kg		79	70 - 130	8	30
2-Butanone (MEK)			0.0500	0.0371		mg/Kg		74	47 - 138	6	30
Carbon disulfide			0.0500	0.0559		mg/Kg		112	70 - 129	7	30
Carbon tetrachloride			0.0500	0.0620		mg/Kg		124	75 - 125	7	30
Chlorobenzene			0.0500	0.0556		mg/Kg		111	50 - 150	5	30
Chloroethane			0.0500	0.0480		mg/Kg		96	75 - 125	11	30
Chloroform			0.0500	0.0528		mg/Kg		106	57 - 135	7	30
Chloromethane			0.0500	0.0479		mg/Kg		96	70 - 125	7	30
cis-1,2-Dichloroethene			0.0500	0.0521		mg/Kg		104	70 - 125	4	30
cis-1,3-Dichloropropene			0.0500	0.0480		mg/Kg		96	70 - 125	3	30
Dibromochloromethane			0.0500	0.0521		mg/Kg		104	69 - 125	5	30
1,1-Dichloroethane			0.0500	0.0573		mg/Kg		115	70 - 125	6	30
1,2-Dichloroethane			0.0500	0.0484		mg/Kg		97	70 - 130	4	30
1,1-Dichloroethene			0.0500	0.0536		mg/Kg		107	70 - 120	7	30
1,2-Dichloropropane			0.0500	0.0561		mg/Kg		112	70 - 125	6	30
Ethylbenzene			0.0500	0.0595		mg/Kg		119	61 - 136	2	30
2-Hexanone			0.0500	0.0374		mg/Kg		75	48 - 146	1	30
Methylene Chloride			0.0500	0.0465		mg/Kg		93	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0369		mg/Kg		74	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0441		mg/Kg		88	50 - 140	3	30
Styrene			0.0500	0.0567		mg/Kg		113	70 - 125	2	30
1,1,2,2-Tetrachloroethane			0.0500	0.0421		mg/Kg		84	70 - 122	3	30
Tetrachloroethene			0.0500	0.0572		mg/Kg		114	70 - 124	5	30
Toluene			0.0500	0.0555		mg/Kg		111	70 - 125	5	30
trans-1,2-Dichloroethene			0.0500	0.0549		mg/Kg		110	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0465		mg/Kg		93	70 - 125	5	30
1,1,1-Trichloroethane			0.0500	0.0574		mg/Kg		115	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0470		mg/Kg		94	70 - 125	2	30
Trichloroethene			0.0500	0.0569		mg/Kg		114	70 - 125	7	30
Vinyl acetate			0.0500	0.0356		mg/Kg		71	40 - 153	6	30
Vinyl chloride			0.0500	0.0439		mg/Kg		88	70 - 125	11	30
Xylenes, Total			0.100	0.108		mg/Kg		108	53 - 147	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 134*
Toluene-d8 (Surr)	*93*		*75 - 124*

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

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

Lab Sample ID: MB 500-598177/1-A
Matrix: Solid
Analysis Batch: 598289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/11/21 20:00	05/12/21 11:26	1

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

Lab Sample ID: MB 500-598177/1-A
Matrix: Solid
Analysis Batch: 598289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/11/21 20:00	05/12/21 11:26	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/11/21 20:00	05/12/21 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*107*		*31 - 166*	*05/11/21 20:00*	*05/12/21 11:26*	*1*
Phenol-d5	*106*		*30 - 153*	*05/11/21 20:00*	*05/12/21 11:26*	*1*
Nitrobenzene-d5	*103*		*37 - 147*	*05/11/21 20:00*	*05/12/21 11:26*	*1*
2-Fluorobiphenyl	*110*		*43 - 145*	*05/11/21 20:00*	*05/12/21 11:26*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/11/21 20:00*	*05/12/21 11:26*	*1*
Terphenyl-d14	*144*		*42 - 157*	*05/11/21 20:00*	*05/12/21 11:26*	*1*

Lab Sample ID: LCS 500-598177/2-A
Matrix: Solid
Analysis Batch: 598289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.25		mg/Kg		94	56 - 122
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
1,2-Dichlorobenzene	1.33	1.16		mg/Kg		87	62 - 110
2-Methylphenol	1.33	1.31		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.55		mg/Kg		116	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
Hexachloroethane	1.33	1.16		mg/Kg		87	60 - 114
2-Chlorophenol	1.33	1.16		mg/Kg		87	64 - 110
Nitrobenzene	1.33	1.29		mg/Kg		97	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.22		mg/Kg		91	60 - 112
1,2,4-Trichlorobenzene	1.33	1.33		mg/Kg		99	66 - 117
Isophorone	1.33	1.25		mg/Kg		94	55 - 110
2,4-Dimethylphenol	1.33	1.27		mg/Kg		95	60 - 110
Hexachlorobutadiene	1.33	1.35		mg/Kg		101	56 - 120
Naphthalene	1.33	1.29		mg/Kg		97	63 - 110
2,4-Dichlorophenol	1.33	1.32		mg/Kg		99	58 - 120

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

Lab Sample ID: LCS 500-598177/2-A
Matrix: Solid
Analysis Batch: 598289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.27		mg/Kg		95	57 - 120
2,4,5-Trichlorophenol	1.33	1.47		mg/Kg		110	50 - 120
Hexachlorocyclopentadiene	1.33	1.28		mg/Kg		96	10 - 133
2-Methylnaphthalene	1.33	1.38		mg/Kg		104	69 - 112
2-Nitroaniline	1.33	1.39		mg/Kg		104	57 - 124
2-Chloronaphthalene	1.33	1.24		mg/Kg		93	69 - 114
4-Chloro-3-methylphenol	1.33	1.31		mg/Kg		99	65 - 122
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		101	70 - 123
2-Nitrophenol	1.33	1.26		mg/Kg		95	60 - 120
3-Nitroaniline	1.33	1.05		mg/Kg		78	40 - 122
Dimethyl phthalate	1.33	1.23		mg/Kg		93	69 - 116
2,4-Dinitrophenol	2.67	<0.67	*-	mg/Kg		7	10 - 100
Acenaphthylene	1.33	1.29		mg/Kg		97	68 - 120
2,4-Dinitrotoluene	1.33	1.47		mg/Kg		110	69 - 124
Acenaphthene	1.33	1.29		mg/Kg		97	65 - 124
Dibenzofuran	1.33	1.42		mg/Kg		106	66 - 115
4-Nitrophenol	2.67	2.84		mg/Kg		106	30 - 122
Fluorene	1.33	1.32		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.11		mg/Kg		84	60 - 160
4-Bromophenyl phenyl ether	1.33	1.37		mg/Kg		103	68 - 118
Hexachlorobenzene	1.33	1.38		mg/Kg		104	63 - 124
Diethyl phthalate	1.33	1.29		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.34		mg/Kg		101	62 - 119
Pentachlorophenol	2.67	1.76		mg/Kg		66	13 - 112
N-Nitrosodiphenylamine	1.33	1.30		mg/Kg		97	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.617	J	mg/Kg		23	10 - 110
Phenanthrene	1.33	1.38		mg/Kg		104	62 - 120
Anthracene	1.33	1.40		mg/Kg		105	70 - 114
Carbazole	1.33	1.59		mg/Kg		119	65 - 142
Di-n-butyl phthalate	1.33	1.30		mg/Kg		98	65 - 120
Fluoranthene	1.33	1.44		mg/Kg		108	62 - 120
Pyrene	1.33	1.27		mg/Kg		96	61 - 128
Butyl benzyl phthalate	1.33	1.14		mg/Kg		85	71 - 129
Benzo[a]anthracene	1.33	1.22		mg/Kg		91	67 - 122
Chrysene	1.33	1.29		mg/Kg		97	63 - 120
3,3'-Dichlorobenzidine	1.33	1.04		mg/Kg		78	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.21		mg/Kg		91	72 - 131
Di-n-octyl phthalate	1.33	1.25		mg/Kg		94	68 - 134
Benzo[b]fluoranthene	1.33	1.33		mg/Kg		100	69 - 129
Benzo[k]fluoranthene	1.33	1.39		mg/Kg		105	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.39		mg/Kg		104	68 - 130
Dibenz(a,h)anthracene	1.33	1.38		mg/Kg		104	64 - 131
Benzo[g,h,i]perylene	1.33	1.24		mg/Kg		93	72 - 131
3 & 4 Methylphenol	1.33	1.12		mg/Kg		84	57 - 120

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

Lab Sample ID: LCS 500-598177/2-A
Matrix: Solid
Analysis Batch: 598289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598177

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*91*		*31 - 166*
Phenol-d5	*96*		*30 - 153*
Nitrobenzene-d5	*91*		*37 - 147*
2-Fluorobiphenyl	*104*		*43 - 145*
2,4,6-Tribromophenol	*92*		*31 - 143*
Terphenyl-d14	*98*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-597920/1-A
Matrix: Solid
Analysis Batch: 598227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Barium	<1.0		1.0	0.11	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Boron	<5.0		5.0	0.47	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Cadmium	<0.20		0.20	0.036	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Calcium	3.73	J	20	3.4	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Copper	<1.0		1.0	0.28	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Iron	<20		20	10	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Lead	<0.50		0.50	0.23	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Magnesium	<10		10	5.0	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Potassium	<50		50	18	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Silver	<0.50		0.50	0.13	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Sodium	<100		100	15	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/10/21 17:32	05/11/21 14:18	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/10/21 17:32	05/11/21 14:18	1

Lab Sample ID: LCS 500-597920/2-A
Matrix: Solid
Analysis Batch: 598227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.0		mg/Kg		100	80 - 120
Arsenic	10.0	9.70		mg/Kg		97	80 - 120
Barium	200	206		mg/Kg		103	80 - 120
Beryllium	5.00	4.53		mg/Kg		91	80 - 120
Boron	100	88.7		mg/Kg		89	80 - 120
Cadmium	5.00	4.71		mg/Kg		94	80 - 120
Calcium	1000	967		mg/Kg		97	80 - 120

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

Lab Sample ID: LCS 500-597920/2-A
Matrix: Solid
Analysis Batch: 598227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Iron	100	95.1		mg/Kg		95	80 - 120
Lead	10.0	9.46		mg/Kg		95	80 - 120
Magnesium	1000	916		mg/Kg		92	80 - 120
Manganese	50.0	45.3		mg/Kg		91	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Potassium	1000	1060		mg/Kg		106	80 - 120
Selenium	10.0	8.99		mg/Kg		90	80 - 120
Silver	5.00	4.84		mg/Kg		97	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120
Thallium	10.0	9.60		mg/Kg		96	80 - 120
Vanadium	50.0	49.3		mg/Kg		99	80 - 120
Zinc	50.0	48.3		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-597928/16-A
Matrix: Solid
Analysis Batch: 598227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.527		mg/L		105	80 - 120
Beryllium	0.0500	0.0454		mg/L		91	80 - 120
Boron	1.00	0.937		mg/L		94	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.492		mg/L		98	80 - 120
Iron	1.00	0.923		mg/L		92	80 - 120
Lead	0.100	0.0964		mg/L		96	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Selenium	0.100	0.0997		mg/L		100	80 - 120
Silver	0.0500	0.0485		mg/L		97	80 - 120
Zinc	0.500	0.508		mg/L		102	80 - 120

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.491	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Boron	1.00	0.908		mg/L		91	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.0928		mg/L		93	80 - 120
Nickel	0.500	0.506		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120

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

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0527		mg/L		105	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Lab Sample ID: LB 500-597741/1-B
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:01	1
Boron	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:01	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:01	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Zinc	<0.50		0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:01	1

Lab Sample ID: LB2 500-597742/1-B
Matrix: Solid
Analysis Batch: 598227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 13:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 13:13	1
Boron	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 13:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 13:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:13	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 13:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 13:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 13:13	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 13:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/10/21 18:37	05/11/21 13:13	1

Lab Sample ID: 500-198579-4 MS
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: 3530-37-B02 (6-12)
Prep Type: TCLP
Prep Batch: 597928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.43	J	0.500	0.946		mg/L		103	75 - 125
Beryllium	<0.0040		0.0500	0.0451		mg/L		90	75 - 125
Boron	0.23	J F1	1.00	0.933	F1	mg/L		71	75 - 125
Cadmium	<0.0050		0.0500	0.0521		mg/L		104	75 - 125
Chromium	<0.025		0.200	0.189		mg/L		95	75 - 125

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

Lab Sample ID: 500-198579-4 MS
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: 3530-37-B02 (6-12)
Prep Type: TCLP
Prep Batch: 597928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	<0.025		0.500	0.512		mg/L		102	75 - 125
Iron	<0.40		1.00	0.966		mg/L		97	75 - 125
Lead	<0.0075		0.100	0.0967		mg/L		97	75 - 125
Nickel	0.042		0.500	0.545		mg/L		101	75 - 125
Selenium	<0.050		0.100	0.107		mg/L		107	75 - 125
Silver	<0.025		0.0500	0.0535		mg/L		107	75 - 125
Zinc	<0.50		0.500	0.600		mg/L		120	75 - 125

Lab Sample ID: 500-198579-4 DU
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: 3530-37-B02 (6-12)
Prep Type: TCLP
Prep Batch: 597928

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.43	J	0.447	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.23	J F1	0.238	J	mg/L		5	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Nickel	0.042		0.0431		mg/L		3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		0.0370	J	mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-597928/16-A
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.489	^1+	mg/L		98	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.502	^1+	mg/L		100	80 - 120
Thallium	0.100	0.0991		mg/L		99	80 - 120

Lab Sample ID: LB 500-597741/1-B
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:03	1

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

Lab Sample ID: LB 500-597741/1-B
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:03	1

Lab Sample ID: LB2 500-597742/1-B
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:22	1

Lab Sample ID: 500-198579-4 MS
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: 3530-37-B02 (6-12)
Prep Type: TCLP
Prep Batch: 597928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060	^1+	0.500	0.522	^1+	mg/L		104	75 - 125
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-198579-4 DU
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: 3530-37-B02 (6-12)
Prep Type: TCLP
Prep Batch: 597928

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0060	^1+	<0.0060	^1+	mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-598063/12-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 08:54	1

Lab Sample ID: LCS 500-598063/37-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00177		mg/L		88	80 - 120

Lab Sample ID: MB 500-598065/12-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:05	1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-598065/14-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00188		mg/L		94	80 - 120		

Lab Sample ID: LB2 500-597742/2-B
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598063

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 09:58	1

Lab Sample ID: LB 500-597741/1-C
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598065

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:09	1

Lab Sample ID: 500-198579-3 MS
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: 3530-37-B02 (0-6)
Prep Type: TCLP
Prep Batch: 598065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00020		0.00100	0.000872		mg/L		87	75 - 125		

Lab Sample ID: 500-198579-3 DU
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: 3530-37-B02 (0-6)
Prep Type: TCLP
Prep Batch: 598065

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	<0.00020			<0.00020		mg/L				NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-597457/12-A
Matrix: Solid
Analysis Batch: 597816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00611	J	0.017	0.0056	mg/Kg		05/07/21 14:20	05/10/21 07:57	1

Lab Sample ID: LCS 500-597457/13-A
Matrix: Solid
Analysis Batch: 597816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597457

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.166		mg/Kg		100	80 - 120		

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B01 (0-6)
Date Collected: 05/03/21 16:15
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597742	05/07/21 16:40	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598227	05/11/21 13:20	EEN	TAL CHI
TCLP	Leach	1311			597742	05/07/21 16:40	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:24	FXG	TAL CHI
TCLP	Leach	1311			597742	05/07/21 16:40	CMS	TAL CHI
TCLP	Prep	7470A			598063	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:00	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-37-B01 (0-6)
Date Collected: 05/03/21 16:15
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-1
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 16:12	PMF	TAL CHI
Total/NA	Prep	3541			598177	05/11/21 20:00	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598309	05/12/21 21:05	AJD	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		1	598227	05/11/21 14:54	EEN	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		2	598347	05/12/21 10:06	JJB	TAL CHI
Total/NA	Prep	7471B			597457	05/07/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		2	597816	05/10/21 08:51	MJG	TAL CHI

Client Sample ID: 3530-37-B01 (6-12)
Date Collected: 05/03/21 16:25
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:37	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:13	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:03	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-37-B01 (6-12)

Lab Sample ID: 500-198579-2

Date Collected: 05/03/21 16:25

Matrix: Solid

Date Received: 05/04/21 11:30

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 16:38	PMF	TAL CHI
Total/NA	Prep	3541			598177	05/11/21 20:00	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598295	05/12/21 14:29	AJD	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		1	598227	05/11/21 14:57	EEN	TAL CHI
Total/NA	Prep	7471B			597457	05/07/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	597816	05/10/21 08:34	MJG	TAL CHI

Client Sample ID: 3530-37-B02 (0-6)

Lab Sample ID: 500-198579-3

Date Collected: 05/03/21 16:40

Matrix: Solid

Date Received: 05/04/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:40	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:14	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:05	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-37-B02 (0-6)

Lab Sample ID: 500-198579-3

Date Collected: 05/03/21 16:40

Matrix: Solid

Date Received: 05/04/21 11:30

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 17:04	PMF	TAL CHI
Total/NA	Prep	3541			598177	05/11/21 20:00	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598295	05/12/21 14:50	AJD	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		1	598227	05/11/21 15:00	EEN	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		2	598347	05/12/21 10:09	JJB	TAL CHI
Total/NA	Prep	7471B			597457	05/07/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	597816	05/10/21 08:36	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198579-1

Client Sample ID: 3530-37-B02 (6-12)

Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:44	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:17	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:07	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-37-B02 (6-12)

Date Collected: 05/03/21 16:50
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198579-4

Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 17:30	PMF	TAL CHI
Total/NA	Prep	3541			598177	05/11/21 20:00	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598295	05/12/21 15:11	AJD	TAL CHI
Total/NA	Prep	3050B			597920	05/10/21 17:32	LMN	TAL CHI
Total/NA	Analysis	6010B		1	598227	05/11/21 15:10	EEN	TAL CHI
Total/NA	Prep	7471B			597457	05/07/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	597816	05/10/21 08:47	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198579-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International inc	PWSID			Job #: 500-198579

Address: 33 West Monroe Street, Suite 1825
City: Chicago
State Zip: IL 60603-5326
Phone: 312-345-1400
Email: mfischer@envdesigni com
Project Name: IDOT - 172-027 - WO 93
Site: FAP 42 / FAP 841 (IL 127 / IL 154)

500-198579 COC

Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: 945 033
WO #: 172-027 - WO 93
Lab Project #:

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note.
	Preservation Code:														
1	3530-37-B01 (0-6)	5-3 21	1615	G	S			X	X	X	X	X	X		
2	-B01 (6-12)		1625												
3	-B02 (0-6)		1640												
4	-B02 (6-12)		1650												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		5-3-21 1830	EDI		5/4/21 1130	EAH-CHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No
Cooler Temperature(s) °C and Other Remarks: 4.4 → 4.2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198579-1

Login Number: 198579
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198673-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/21/2021 4:29:10 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc. Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198673-1

Receipt
The samples were received on 5/5/2021 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8º C and 4.7º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 597348 recovered outside control limits for Chloromethane. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.3530-39-B05 (6-12) (500-198673-14)

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

GC/MS Semi VOA
Method 8270D: The following samples contained one acid surrogate outside acceptance limits:3530-39-B03 (0-6) (500-198673-9) and (MB 500-597933/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-597933 and analytical batch 500-598004 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-597933 and analytical batch 500-598004 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries was within acceptance limits.

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

Metals
Method 6020A: The initial and continuing calibration verification (ICV/CCV) associated with batch 500-598957 recovered above the upper control limit for Antimony. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (0-5)

Lab Sample ID: 500-198673-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.74	J F1	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7	F1	0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110	F1	0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8	J F1	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.59	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	12		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000	F1	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100	F2	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	980	F1	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J F1	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	46	J	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0	F1	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.29	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	1.0		0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.033		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	4.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B01 (5-10)

Lab Sample ID: 500-198673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.096	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	7.6		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	640		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	500		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.53		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B01 (5-10) (Continued) Lab Sample ID: 500-198673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	22		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.066		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	5.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B01 (10-15) Lab Sample ID: 500-198673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.53	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	0.91	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1100	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.4		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	110		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	520		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.84		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B06 (0-6) Lab Sample ID: 500-198673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.052		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.033	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0093	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0088	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.74	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B06 (0-6) (Continued) Lab Sample ID: 500-198673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.7	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	8500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.013		0.0050	0.0020	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B06 (0-6)D Lab Sample ID: 500-198673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.029	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.041		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0079	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.098		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.050		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.050		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.84	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.53	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	2.2	J	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B06 (0-6)D (Continued)

Lab Sample ID: 500-198673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	14		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4600		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		27	9.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Sodium	96		53	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.53	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.085	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B06 (6-12)

Lab Sample ID: 500-198673-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	0.53	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	900	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	7.4		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1900		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	680		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Silver	0.42		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	99		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	1.5		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	6.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (0-6)

Lab Sample ID: 500-198673-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	220		0.62	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.62	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	55	J	62	9.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	44		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	2.9		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.018	J	0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	4.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B02 (6-12)

Lab Sample ID: 500-198673-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.40	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.9		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	6.2		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.1		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	500		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.37		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B02 (6-12) (Continued) Lab Sample ID: 500-198673-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	27		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.018	J F1	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	5.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B03 (0-6) Lab Sample ID: 500-198673-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0093	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0096	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.77	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	94		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4200		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	860		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	50	J	55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.023		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B03 (6-12) Lab Sample ID: 500-198673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.86	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.89		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B03 (6-12) (Continued) Lab Sample ID: 500-198673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	8.4		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	1.0		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.022		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	6.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B04 (0-6) Lab Sample ID: 500-198673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.023	J	0.076	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0080	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0074	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.77	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.8	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	9700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	890		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.80		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	89		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.91		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B04 (0-6) (Continued) Lab Sample ID: 500-198673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.031		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B04 (6-12) Lab Sample ID: 500-198673-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0067	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0080	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0056	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.64	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	6700	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.75		0.57	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0056		0.0050	0.0020	mg/L	1		6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.055	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.025		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B05 (0-6) Lab Sample ID: 500-198673-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.015	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	5.9		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B05 (0-6) (Continued) Lab Sample ID: 500-198673-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.59	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	6.6		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	1200		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.4		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	68		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.2		0.59	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.080		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-39-B05 (6-12) Lab Sample ID: 500-198673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	150		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.038	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.43		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	65		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.043	J	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-39-B05 (6-12) (Continued)

Lab Sample ID: 500-198673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.032		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	5.9		0.2	0.2	SU	1		9045D	Total/NA

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198673-1	3530-39-B01 (0-5)	Solid	05/04/21 10:40	05/05/21 13:30	
500-198673-2	3530-39-B01 (5-10)	Solid	05/04/21 10:50	05/05/21 13:30	
500-198673-3	3530-39-B01 (10-15)	Solid	05/04/21 11:00	05/05/21 13:30	
500-198673-4	3530-39-B06 (0-6)	Solid	05/04/21 11:25	05/05/21 13:30	
500-198673-5	3530-39-B06 (0-6)D	Solid	05/04/21 11:25	05/05/21 13:30	
500-198673-6	3530-39-B06 (6-12)	Solid	05/04/21 11:40	05/05/21 13:30	
500-198673-7	3530-39-B02 (0-6)	Solid	05/04/21 11:50	05/05/21 13:30	
500-198673-8	3530-39-B02 (6-12)	Solid	05/04/21 12:00	05/05/21 13:30	
500-198673-9	3530-39-B03 (0-6)	Solid	05/04/21 12:15	05/05/21 13:30	
500-198673-10	3530-39-B03 (6-12)	Solid	05/04/21 12:25	05/05/21 13:30	
500-198673-11	3530-39-B04 (0-6)	Solid	05/04/21 12:40	05/05/21 13:30	
500-198673-12	3530-39-B04 (6-12)	Solid	05/04/21 12:50	05/05/21 13:30	
500-198673-13	3530-39-B05 (0-6)	Solid	05/04/21 13:05	05/05/21 13:30	
500-198673-14	3530-39-B05 (6-12)	Solid	05/04/21 13:15	05/05/21 13:30	

Client Sample ID: 3530-39-B01 (0-5)
Date Collected: 05/04/21 10:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-1
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*05/05/21 17:41*	*05/06/21 13:14*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/05/21 17:41*	*05/06/21 13:14*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 13:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (0-5)
Date Collected: 05/04/21 10:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-1
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4-Dinitrophenol	<0.81	F1 *-	0.81	0.71	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
4,6-Dinitro-2-methylphenol	<0.81	F2	0.81	0.32	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1

Client Sample ID: 3530-39-B01 (0-5)
Date Collected: 05/04/21 10:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-1
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:35	05/11/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*103*		*31 - 166*	*05/10/21 19:35*	*05/11/21 13:15*	*1*
Phenol-d5	*105*		*30 - 153*	*05/10/21 19:35*	*05/11/21 13:15*	*1*
Nitrobenzene-d5	*96*		*37 - 147*	*05/10/21 19:35*	*05/11/21 13:15*	*1*
2-Fluorobiphenyl	*110*		*43 - 145*	*05/10/21 19:35*	*05/11/21 13:15*	*1*
2,4,6-Tribromophenol	*95*		*31 - 143*	*05/10/21 19:35*	*05/11/21 13:15*	*1*
Terphenyl-d14	*132*		*42 - 157*	*05/10/21 19:35*	*05/11/21 13:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.74**	**J F1**	1.2	0.23	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Arsenic	**8.7**	**F1**	0.59	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Barium	**110**	**F1**	0.59	0.067	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Beryllium	**0.67**		0.24	0.055	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Boron	**2.8**	**J F1**	2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Calcium	**1000**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Chromium	**18**		0.59	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Cobalt	**8.9**		0.59	0.15	mg/Kg	☼	05/11/21 09:21	05/14/21 12:49	2
Copper	**12**		0.59	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Iron	**20000**		12	6.1	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Lead	**15**	**F1**	0.29	0.14	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Magnesium	**2000**	**F1**	5.9	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Manganese	**1100**	**F2**	0.59	0.086	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Nickel	**12**		0.59	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Potassium	**980**	**F1**	29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Selenium	**0.42**	**J F1**	0.59	0.35	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Silver	**0.23**	**J**	0.29	0.076	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Sodium	**46**	**J**	59	8.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Thallium	**2.0**	**F1**	0.59	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Vanadium	**35**		0.29	0.070	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1
Zinc	**47**		1.2	0.52	mg/Kg	☼	05/11/21 09:21	05/13/21 16:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.19**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:37	1
Boron	**0.051**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:37	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (0-5)
Date Collected: 05/04/21 10:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-1
Matrix: Solid
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:37	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:37	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:37	1
Iron	**1.0**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:37	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:37	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:37	1
Zinc	**0.032**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.020	0.0067	mg/Kg	☼	05/12/21 14:05	05/13/21 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.8**		0.2	0.2	SU			05/10/21 17:15	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (5-10)
Date Collected: 05/04/21 10:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-2
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/06/21 13:40*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*05/05/21 17:41*	*05/06/21 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/05/21 17:41*	*05/06/21 13:40*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 13:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B01 (5-10)
Lab Sample ID: 500-198673-2
Date Collected: 05/04/21 10:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1

Client Sample ID: 3530-39-B01 (5-10)
Date Collected: 05/04/21 10:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-2
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*86*		*31 - 166*	*05/10/21 19:35*	*05/11/21 14:18*	*1*
Phenol-d5	*78*		*30 - 153*	*05/10/21 19:35*	*05/11/21 14:18*	*1*
Nitrobenzene-d5	*86*		*37 - 147*	*05/10/21 19:35*	*05/11/21 14:18*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*05/10/21 19:35*	*05/11/21 14:18*	*1*
2,4,6-Tribromophenol	*49*		*31 - 143*	*05/10/21 19:35*	*05/11/21 14:18*	*1*
Terphenyl-d14	*126*		*42 - 157*	*05/10/21 19:35*	*05/11/21 14:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.48**	**J**	1.2	0.23	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Arsenic	**3.3**		0.58	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Barium	**36**		0.58	0.066	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Beryllium	**0.75**		0.23	0.054	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Boron	**1.1**	**J**	2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Cadmium	**0.096**	**J B**	0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Calcium	**1000**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Cobalt	**7.4**		0.29	0.076	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Copper	**7.6**		0.58	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Iron	**12000**		12	6.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Lead	**8.2**		0.29	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Magnesium	**1700**		5.8	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Manganese	**640**		0.58	0.084	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Nickel	**36**		0.58	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Potassium	**500**		29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Silver	**0.53**		0.29	0.075	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Sodium	**120**		58	8.6	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Thallium	**1.2**		0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Vanadium	**22**		0.29	0.068	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1
Zinc	**41**		1.2	0.51	mg/Kg	☼	05/11/21 09:21	05/13/21 16:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.34**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:40	1
Boron	**0.22**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:40	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B01 (5-10)
Lab Sample ID: 500-198673-2
Date Collected: 05/04/21 10:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:40	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:40	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:40	1
Iron	**0.23**	**J**	0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:40	1
Nickel	**0.066**		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:40	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:40	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:40	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0064	mg/Kg	☼	05/12/21 14:05	05/13/21 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.8**		0.2	0.2	SU			05/10/21 17:17	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B01 (10-15)
Date Collected: 05/04/21 11:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-3
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:06*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:06*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (10-15)
Date Collected: 05/04/21 11:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-3
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1

Client Sample ID: 3530-39-B01 (10-15)
Date Collected: 05/04/21 11:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-3
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*91*		*31 - 166*	*05/10/21 19:35*	*05/11/21 14:40*	*1*
Phenol-d5	*82*		*30 - 153*	*05/10/21 19:35*	*05/11/21 14:40*	*1*
Nitrobenzene-d5	*92*		*37 - 147*	*05/10/21 19:35*	*05/11/21 14:40*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*05/10/21 19:35*	*05/11/21 14:40*	*1*
2,4,6-Tribromophenol	*41*		*31 - 143*	*05/10/21 19:35*	*05/11/21 14:40*	*1*
Terphenyl-d14	*122*		*42 - 157*	*05/10/21 19:35*	*05/11/21 14:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.53**	**J**	1.2	0.23	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Arsenic	**4.2**		0.59	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Barium	**38**		0.59	0.067	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Beryllium	**0.69**		0.24	0.055	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Boron	**0.91**	**J**	2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Calcium	**1100**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Chromium	**16**		0.59	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Cobalt	**3.4**		0.29	0.077	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Copper	**6.8**		0.59	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Iron	**15000**		12	6.1	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Lead	**8.6**		0.29	0.14	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Magnesium	**1800**		5.9	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Manganese	**110**		0.59	0.085	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Nickel	**10**		0.59	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Potassium	**520**		29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Silver	**0.33**		0.29	0.076	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Sodium	**170**		59	8.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Thallium	**0.49**	**J**	0.59	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Vanadium	**27**		0.29	0.069	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1
Zinc	**25**		1.2	0.52	mg/Kg	☼	05/11/21 09:21	05/13/21 16:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.26**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:51	1
Boron	**0.15**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:51	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (10-15)

Date Collected: 05/04/21 11:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-3

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:51	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:51	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:51	1
Iron	**0.84**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:51	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:51	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:51	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:51	1
Zinc	**0.047**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.018	0.0059	mg/Kg	☼	05/12/21 14:05	05/13/21 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.9**		0.2	0.2	SU			05/10/21 17:20	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B06 (0-6)
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-4
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:31*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:31*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (0-6)
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-4
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Naphthalene	**0.052**		0.039	0.0060	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Methylnaphthalene	**0.033**	**J**	0.078	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Phenanthrene	**0.034**	**J**	0.039	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Fluoranthene	**0.0093**	**J**	0.039	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Pyrene	**0.014**	**J**	0.039	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Benzo[a]anthracene	**0.0088**	**J**	0.039	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1

Client Sample ID: 3530-39-B06 (0-6)
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-4
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*95*		*31 - 166*	*05/10/21 19:35*	*05/11/21 17:30*	*1*
Phenol-d5	*98*		*30 - 153*	*05/10/21 19:35*	*05/11/21 17:30*	*1*
Nitrobenzene-d5	*92*		*37 - 147*	*05/10/21 19:35*	*05/11/21 17:30*	*1*
2-Fluorobiphenyl	*103*		*43 - 145*	*05/10/21 19:35*	*05/11/21 17:30*	*1*
2,4,6-Tribromophenol	*57*		*31 - 143*	*05/10/21 19:35*	*05/11/21 17:30*	*1*
Terphenyl-d14	*121*		*42 - 157*	*05/10/21 19:35*	*05/11/21 17:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.74**	**J**	1.1	0.21	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Arsenic	**7.3**		0.55	0.19	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Barium	**93**		0.55	0.063	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Beryllium	**0.80**		0.22	0.051	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Boron	**2.7**	**J**	2.8	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Cadmium	**0.49**	**B**	0.11	0.020	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Calcium	**8500**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Chromium	**17**		0.55	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Cobalt	**9.4**		0.28	0.072	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Copper	**14**		0.55	0.15	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Iron	**20000**		11	5.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Lead	**14**		0.28	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Magnesium	**3800**		5.5	2.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Manganese	**430**		0.55	0.080	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Nickel	**24**		0.55	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Potassium	**1100**		28	9.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Selenium	**1.2**		0.55	0.32	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Silver	**0.36**		0.28	0.071	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Sodium	**100**		55	8.2	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Thallium	**1.2**		0.55	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Vanadium	**27**		0.28	0.065	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1
Zinc	**69**		1.1	0.48	mg/Kg	☼	05/11/21 09:21	05/13/21 16:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.16**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:55	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:55	1

Client Sample ID: 3530-39-B06 (0-6)
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-4
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.013**		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:55	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:55	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:55	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:55	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:55	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:55	1
Zinc	**0.079**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:55	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:10	05/14/21 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.018	0.0061	mg/Kg	☼	05/12/21 14:05	05/13/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			05/10/21 17:22	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (0-6)D

Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-5

Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:58*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (0-6)D
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-5
Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Naphthalene	**0.012**	**J**	0.037	0.0058	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Methylnaphthalene	**0.029**	**J**	0.076	0.0069	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4-Dinitrophenol	<0.76	*-	0.76	0.66	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Phenanthrene	**0.041**		0.037	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Anthracene	**0.0079**	**J**	0.037	0.0063	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Fluoranthene	**0.11**		0.037	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Pyrene	**0.098**		0.037	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Benzo[a]anthracene	**0.050**		0.037	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1

Client Sample ID: 3530-39-B06 (0-6)D
Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-5
Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.050**		0.037	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Benzo[b]fluoranthene	**0.055**		0.037	0.0081	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Benzo[k]fluoranthene	**0.023**	**J**	0.037	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Benzo[a]pyrene	**0.043**		0.037	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Indeno[1,2,3-cd]pyrene	**0.019**	**J**	0.037	0.0097	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.037	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*98*		*31 - 166*	*05/10/21 19:35*	*05/11/21 17:51*	*1*
Phenol-d5	*93*		*30 - 153*	*05/10/21 19:35*	*05/11/21 17:51*	*1*
Nitrobenzene-d5	*95*		*37 - 147*	*05/10/21 19:35*	*05/11/21 17:51*	*1*
2-Fluorobiphenyl	*105*		*43 - 145*	*05/10/21 19:35*	*05/11/21 17:51*	*1*
2,4,6-Tribromophenol	*59*		*31 - 143*	*05/10/21 19:35*	*05/11/21 17:51*	*1*
Terphenyl-d14	*124*		*42 - 157*	*05/10/21 19:35*	*05/11/21 17:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.84**	**J**	1.1	0.21	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Arsenic	**8.7**		0.53	0.18	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Barium	**85**		0.53	0.061	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Beryllium	**0.79**		0.21	0.050	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Boron	**2.2**	**J**	2.7	0.25	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Cadmium	**0.46**	**B**	0.11	0.019	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Calcium	**16000**	**B**	11	1.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Chromium	**16**		0.53	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Cobalt	**10**		0.27	0.070	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Copper	**14**		0.53	0.15	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Iron	**20000**		11	5.5	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Lead	**16**		0.27	0.12	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Magnesium	**4600**		5.3	2.6	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Manganese	**580**		0.53	0.077	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Nickel	**26**		0.53	0.15	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Potassium	**1000**		27	9.4	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Selenium	**1.1**		0.53	0.31	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Silver	**0.33**		0.27	0.069	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Sodium	**96**		53	7.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Thallium	**1.2**		0.53	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Vanadium	**24**		0.27	0.063	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1
Zinc	**76**		1.1	0.47	mg/Kg	☼	05/11/21 09:21	05/13/21 16:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.14**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:58	1
Boron	**0.085**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:58	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (0-6)D

Date Collected: 05/04/21 11:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-5

Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0039**	**J**	0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:58	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:58	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:58	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:58	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:58	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:58	1
Zinc	**0.027**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.019	0.0062	mg/Kg	☼	05/12/21 14:05	05/13/21 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**		0.2	0.2	SU			05/10/21 17:25	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (6-12)

Date Collected: 05/04/21 11:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-6

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/06/21 15:24*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*05/05/21 17:41*	*05/06/21 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/05/21 17:41*	*05/06/21 15:24*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/06/21 15:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (6-12)
Date Collected: 05/04/21 11:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-6
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4-Dinitrophenol	<0.77	*-	0.77	0.67	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1

Client Sample ID: 3530-39-B06 (6-12)
Date Collected: 05/04/21 11:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-6
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/10/21 19:35*	*05/11/21 15:01*	*1*
Phenol-d5	*92*		*30 - 153*	*05/10/21 19:35*	*05/11/21 15:01*	*1*
Nitrobenzene-d5	*89*		*37 - 147*	*05/10/21 19:35*	*05/11/21 15:01*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*05/10/21 19:35*	*05/11/21 15:01*	*1*
2,4,6-Tribromophenol	*55*		*31 - 143*	*05/10/21 19:35*	*05/11/21 15:01*	*1*
Terphenyl-d14	*127*		*42 - 157*	*05/10/21 19:35*	*05/11/21 15:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.60**	**J**	1.1	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Arsenic	**3.8**		0.55	0.19	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Barium	**91**		0.55	0.063	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Beryllium	**0.75**		0.22	0.052	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Boron	**0.53**	**J**	2.8	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Calcium	**900**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Chromium	**17**		0.55	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Cobalt	**5.6**		0.28	0.073	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Copper	**7.4**		0.55	0.15	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Iron	**15000**		11	5.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Lead	**11**		0.28	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Magnesium	**1900**		5.5	2.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Manganese	**160**		0.55	0.080	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Nickel	**11**		0.55	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Potassium	**680**		28	9.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Silver	**0.42**		0.28	0.071	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Sodium	**99**		55	8.2	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Thallium	**0.66**		0.55	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Vanadium	**29**		0.28	0.065	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1
Zinc	**25**		1.1	0.49	mg/Kg	☼	05/11/21 09:21	05/13/21 16:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.40**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:39	1
Boron	**0.32**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:39	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B06 (6-12)

Date Collected: 05/04/21 11:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-6

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:39	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:39	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:39	1
Iron	**1.5**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:39	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:39	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:39	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:39	1
Zinc	**0.066**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.019	0.0064	mg/Kg	☼	05/12/21 14:05	05/13/21 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.3**		0.2	0.2	SU			05/10/21 17:28	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (0-6)

Date Collected: 05/04/21 11:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-7

Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*05/05/21 17:41*	*05/06/21 15:50*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/05/21 17:41*	*05/06/21 15:50*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (0-6)
Date Collected: 05/04/21 11:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-7
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4-Dinitrophenol	<0.81	*-	0.81	0.71	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1

Client Sample ID: 3530-39-B02 (0-6)
Date Collected: 05/04/21 11:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-7
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:35	05/11/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*95*		*31 - 166*	*05/10/21 19:35*	*05/11/21 15:22*	*1*
Phenol-d5	*94*		*30 - 153*	*05/10/21 19:35*	*05/11/21 15:22*	*1*
Nitrobenzene-d5	*90*		*37 - 147*	*05/10/21 19:35*	*05/11/21 15:22*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*05/10/21 19:35*	*05/11/21 15:22*	*1*
2,4,6-Tribromophenol	*62*		*31 - 143*	*05/10/21 19:35*	*05/11/21 15:22*	*1*
Terphenyl-d14	*133*		*42 - 157*	*05/10/21 19:35*	*05/11/21 15:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**		1.2	0.24	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Arsenic	**13**		0.62	0.21	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Barium	**74**		0.62	0.071	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Beryllium	**0.75**		0.25	0.058	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Boron	**4.4**		3.1	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Calcium	**2200**	**B**	12	2.1	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Chromium	**24**		0.62	0.31	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Cobalt	**5.6**		0.31	0.082	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Copper	**18**		0.62	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Iron	**28000**		12	6.5	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Lead	**21**		0.31	0.14	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Magnesium	**3500**		6.2	3.1	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Manganese	**220**		0.62	0.090	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Nickel	**16**		0.62	0.18	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Potassium	**1600**		31	11	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Selenium	**0.49**	**J**	0.62	0.37	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Silver	**0.32**		0.31	0.080	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Sodium	**55**	**J**	62	9.2	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Thallium	**1.2**		0.62	0.31	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Vanadium	**44**		0.31	0.074	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1
Zinc	**74**		1.2	0.55	mg/Kg	☼	05/11/21 09:21	05/13/21 16:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.16**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:42	1
Boron	**0.37**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:42	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (0-6)
Date Collected: 05/04/21 11:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-7
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:42	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:42	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:42	1
Iron	**2.9**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:42	1
Lead	**0.010**		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:42	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:42	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:42	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:42	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:10	05/14/21 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.020	0.0066	mg/Kg	☼	05/12/21 14:05	05/13/21 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.3**		0.2	0.2	SU			05/10/21 17:32	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B02 (6-12)
Date Collected: 05/04/21 12:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-8
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*	*05/05/21 17:41*	*05/06/21 16:16*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/05/21 17:41*	*05/06/21 16:16*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/06/21 16:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (6-12)
Date Collected: 05/04/21 12:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-8
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4-Dinitrophenol	<0.76	*-	0.76	0.66	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1

Client Sample ID: 3530-39-B02 (6-12)
Date Collected: 05/04/21 12:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-8
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*96*		*31 - 166*	*05/10/21 19:35*	*05/11/21 15:43*	*1*
Phenol-d5	*97*		*30 - 153*	*05/10/21 19:35*	*05/11/21 15:43*	*1*
Nitrobenzene-d5	*94*		*37 - 147*	*05/10/21 19:35*	*05/11/21 15:43*	*1*
2-Fluorobiphenyl	*102*		*43 - 145*	*05/10/21 19:35*	*05/11/21 15:43*	*1*
2,4,6-Tribromophenol	*60*		*31 - 143*	*05/10/21 19:35*	*05/11/21 15:43*	*1*
Terphenyl-d14	*120*		*42 - 157*	*05/10/21 19:35*	*05/11/21 15:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.40**	**J**	1.2	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Arsenic	**3.1**		0.58	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Barium	**86**		0.58	0.066	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Beryllium	**0.62**		0.23	0.054	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Boron	**1.7**	**J**	2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Calcium	**1000**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Chromium	**15**		0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Cobalt	**3.9**		0.29	0.076	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Copper	**6.2**		0.58	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Iron	**12000**		12	6.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Lead	**7.1**		0.29	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Magnesium	**1700**		5.8	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Manganese	**160**		0.58	0.084	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Nickel	**18**		0.58	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Potassium	**500**		29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Silver	**0.37**		0.29	0.075	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Sodium	**200**		58	8.6	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Thallium	**0.54**	**J**	0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Vanadium	**25**		0.29	0.068	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1
Zinc	**27**		1.2	0.51	mg/Kg	☼	05/11/21 09:21	05/13/21 16:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:46	1
Boron	**0.31**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:46	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B02 (6-12)

Date Collected: 05/04/21 12:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-8

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:46	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:46	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:46	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:46	1
Nickel	**0.043**		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:46	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:46	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:46	1
Zinc	**0.079**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J F1**	0.019	0.0063	mg/Kg	☼	05/12/21 14:05	05/13/21 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.6**		0.2	0.2	SU			05/10/21 17:34	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B03 (0-6)
Lab Sample ID: 500-198673-9
Date Collected: 05/04/21 12:15
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*	*05/05/21 17:41*	*05/06/21 16:42*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*05/05/21 17:41*	*05/06/21 16:42*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/06/21 16:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B03 (0-6)
Date Collected: 05/04/21 12:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-9
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Methylnaphthalene	**0.0093**	**J**	0.078	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Phenanthrene	**0.0096**	**J**	0.038	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1

Client Sample ID: 3530-39-B03 (0-6)
Date Collected: 05/04/21 12:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-9
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*92*		*31 - 166*	*05/10/21 19:35*	*05/11/21 16:05*	*1*
Phenol-d5	*91*		*30 - 153*	*05/10/21 19:35*	*05/11/21 16:05*	*1*
Nitrobenzene-d5	*86*		*37 - 147*	*05/10/21 19:35*	*05/11/21 16:05*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*05/10/21 19:35*	*05/11/21 16:05*	*1*
2,4,6-Tribromophenol	*30*	*S1-*	*31 - 143*	*05/10/21 19:35*	*05/11/21 16:05*	*1*
Terphenyl-d14	*117*		*42 - 157*	*05/10/21 19:35*	*05/11/21 16:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.77**	**J**	1.1	0.21	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Arsenic	**8.7**		0.55	0.19	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Barium	**94**		0.55	0.063	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Beryllium	**0.77**		0.22	0.052	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Boron	**1.6**	**J**	2.8	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Cadmium	**0.27**	**B**	0.11	0.020	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Calcium	**11000**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Chromium	**17**		0.55	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Cobalt	**11**		0.28	0.072	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Copper	**13**		0.55	0.15	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Iron	**19000**		11	5.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Lead	**12**		0.28	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Magnesium	**4200**		5.5	2.7	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Manganese	**480**		0.55	0.080	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Nickel	**22**		0.55	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Potassium	**860**		28	9.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Selenium	**0.82**		0.55	0.32	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Silver	**0.34**		0.28	0.071	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Sodium	**50**	**J**	55	8.2	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Thallium	**1.1**		0.55	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Vanadium	**26**		0.28	0.065	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1
Zinc	**59**		1.1	0.48	mg/Kg	☼	05/11/21 09:21	05/13/21 16:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.26**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:50	1
Boron	**0.10**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:50	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B03 (0-6)

Date Collected: 05/04/21 12:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-9

Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0032**	**J**	0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:50	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:50	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:50	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:50	1
Zinc	**0.044**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.019	0.0063	mg/Kg	☼	05/12/21 14:05	05/13/21 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			05/10/21 17:37	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B03 (6-12)
Date Collected: 05/04/21 12:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-10
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:08*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:08*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B03 (6-12)
Date Collected: 05/04/21 12:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-10
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1

Client Sample ID: 3530-39-B03 (6-12)
Date Collected: 05/04/21 12:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-10
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*98*		*31 - 166*	*05/10/21 19:35*	*05/11/21 16:26*	*1*
Phenol-d5	*94*		*30 - 153*	*05/10/21 19:35*	*05/11/21 16:26*	*1*
Nitrobenzene-d5	*95*		*37 - 147*	*05/10/21 19:35*	*05/11/21 16:26*	*1*
2-Fluorobiphenyl	*101*		*43 - 145*	*05/10/21 19:35*	*05/11/21 16:26*	*1*
2,4,6-Tribromophenol	*47*		*31 - 143*	*05/10/21 19:35*	*05/11/21 16:26*	*1*
Terphenyl-d14	*133*		*42 - 157*	*05/10/21 19:35*	*05/11/21 16:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.86**	**J**	1.1	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Arsenic	**6.3**		0.57	0.19	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Barium	**54**		0.57	0.065	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Beryllium	**0.89**		0.23	0.053	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Boron	**1.8**	**J**	2.8	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Calcium	**1500**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Chromium	**17**		0.57	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Cobalt	**13**		0.28	0.074	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Copper	**8.4**		0.57	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Iron	**21000**		11	5.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Lead	**13**		0.28	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Magnesium	**1600**		5.7	2.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Manganese	**500**		0.57	0.082	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Nickel	**14**		0.57	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Potassium	**640**		28	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Silver	**0.36**		0.28	0.073	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Sodium	**110**		57	8.4	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Thallium	**1.1**		0.57	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Vanadium	**31**		0.28	0.067	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1
Zinc	**27**		1.1	0.50	mg/Kg	☼	05/11/21 09:21	05/13/21 16:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.25**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:53	1
Boron	**0.35**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:53	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B03 (6-12)

Date Collected: 05/04/21 12:25
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-10

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:53	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:53	1
Iron	**1.0**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:53	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:53	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:53	1
Zinc	**0.066**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.018	0.0061	mg/Kg	☼	05/12/21 14:05	05/13/21 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.5**		0.2	0.2	SU			05/10/21 17:39	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (0-6)
Date Collected: 05/04/21 12:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-11
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:33*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:33*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (0-6)
Date Collected: 05/04/21 12:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-11
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Naphthalene	**0.012**	**J**	0.038	0.0058	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Methylnaphthalene	**0.023**	**J**	0.076	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4-Dinitrophenol	<0.76	*-	0.76	0.67	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Phenanthrene	**0.017**	**J**	0.038	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Pyrene	**0.0080**	**J**	0.038	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Benzo[a]anthracene	**0.0074**	**J**	0.038	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1

Client Sample ID: 3530-39-B04 (0-6)
Date Collected: 05/04/21 12:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-11
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*31 - 166*	*05/10/21 19:35*	*05/11/21 16:47*	*1*
Phenol-d5	*86*		*30 - 153*	*05/10/21 19:35*	*05/11/21 16:47*	*1*
Nitrobenzene-d5	*84*		*37 - 147*	*05/10/21 19:35*	*05/11/21 16:47*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*05/10/21 19:35*	*05/11/21 16:47*	*1*
2,4,6-Tribromophenol	*44*		*31 - 143*	*05/10/21 19:35*	*05/11/21 16:47*	*1*
Terphenyl-d14	*113*		*42 - 157*	*05/10/21 19:35*	*05/11/21 16:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.77**	**J**	1.2	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Arsenic	**7.7**		0.58	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Barium	**84**		0.58	0.066	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Beryllium	**0.77**		0.23	0.054	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Boron	**1.8**	**J**	2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Cadmium	**0.32**	**B**	0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Calcium	**9700**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Chromium	**15**		0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Cobalt	**8.9**		0.29	0.075	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Copper	**13**		0.58	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Iron	**19000**		12	6.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Lead	**11**		0.29	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Magnesium	**3300**		5.8	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Manganese	**420**		0.58	0.084	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Nickel	**24**		0.58	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Potassium	**890**		29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Selenium	**0.80**		0.58	0.34	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Silver	**0.36**		0.29	0.074	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Sodium	**89**		58	8.5	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Thallium	**0.91**		0.58	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1
Zinc	**62**		1.2	0.51	mg/Kg	☼	05/11/21 09:21	05/13/21 16:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.19**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 13:57	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 13:57	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (0-6)

Date Collected: 05/04/21 12:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-11

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0048**	**J**	0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:57	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:57	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 13:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 13:57	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 13:57	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 13:57	1
Zinc	**0.032**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.018	0.0060	mg/Kg	☼	05/12/21 14:05	05/13/21 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			05/10/21 17:42	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (6-12)
Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:59*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:59*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (6-12)
Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Naphthalene	**0.0067**	**J**	0.039	0.0060	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Methylnaphthalene	**0.011**	**J**	0.078	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Phenanthrene	**0.0080**	**J**	0.039	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Benzo[a]anthracene	**0.0056**	**J**	0.039	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1

Client Sample ID: 3530-39-B04 (6-12)
Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*88*		*31 - 166*	*05/10/21 19:35*	*05/11/21 17:09*	*1*
Phenol-d5	*90*		*30 - 153*	*05/10/21 19:35*	*05/11/21 17:09*	*1*
Nitrobenzene-d5	*80*		*37 - 147*	*05/10/21 19:35*	*05/11/21 17:09*	*1*
2-Fluorobiphenyl	*69*		*43 - 145*	*05/10/21 19:35*	*05/11/21 17:09*	*1*
2,4,6-Tribromophenol	*36*		*31 - 143*	*05/10/21 19:35*	*05/11/21 17:09*	*1*
Terphenyl-d14	*120*		*42 - 157*	*05/10/21 19:35*	*05/11/21 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.64**	**J**	1.1	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Arsenic	**5.0**		0.57	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Barium	**74**		0.57	0.065	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Beryllium	**0.74**		0.23	0.053	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Boron	**4.0**		2.9	0.27	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Cadmium	**0.26**	**B**	0.11	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Calcium	**6700**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Chromium	**16**		0.57	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Cobalt	**8.5**		0.29	0.075	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Copper	**11**		0.57	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Iron	**15000**		11	6.0	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Lead	**9.8**		0.29	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Magnesium	**2800**		5.7	2.8	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Manganese	**330**		0.57	0.083	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Nickel	**25**		0.57	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Potassium	**820**		29	10	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Selenium	**0.40**	**J**	0.57	0.34	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Silver	**0.32**		0.29	0.074	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Sodium	**100**		57	8.5	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Thallium	**0.75**		0.57	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Vanadium	**25**		0.29	0.068	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1
Zinc	**46**		1.1	0.50	mg/Kg	☼	05/11/21 09:21	05/13/21 16:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.17**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 14:01	1
Boron	**0.22**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:01	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (6-12)

Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12

Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0056**		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 14:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:01	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 14:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 14:01	1
Nickel	**0.056**		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 14:01	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:01	1
Zinc	**0.055**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 14:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:10	05/14/21 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.020	0.0066	mg/Kg	☼	05/12/21 14:05	05/13/21 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**		0.2	0.2	SU			05/10/21 17:44	1

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B05 (0-6)
Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/06/21 18:25*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/05/21 17:41*	*05/06/21 18:25*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 18:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (0-6)
Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4-Dinitrophenol	<0.80	*-	0.80	0.70	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Phenanthrene	**0.015**	**J**	0.039	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1

Client Sample ID: 3530-39-B05 (0-6)
Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*77*		*31 - 166*	*05/10/21 19:35*	*05/11/21 13:36*	*1*
Phenol-d5	*80*		*30 - 153*	*05/10/21 19:35*	*05/11/21 13:36*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*05/10/21 19:35*	*05/11/21 13:36*	*1*
2-Fluorobiphenyl	*65*		*43 - 145*	*05/10/21 19:35*	*05/11/21 13:36*	*1*
2,4,6-Tribromophenol	*44*		*31 - 143*	*05/10/21 19:35*	*05/11/21 13:36*	*1*
Terphenyl-d14	*104*		*42 - 157*	*05/10/21 19:35*	*05/11/21 13:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.50**	**J**	1.2	0.23	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Arsenic	**9.0**		0.59	0.20	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Barium	**100**		0.59	0.068	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Beryllium	**0.71**		0.24	0.055	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Boron	**5.9**		3.0	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Calcium	**1900**	**B**	12	2.0	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Chromium	**14**		0.59	0.29	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Cobalt	**9.3**		0.59	0.16	mg/Kg	☼	05/11/21 09:21	05/14/21 13:05	2
Copper	**6.6**		0.59	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Iron	**17000**		12	6.2	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Lead	**19**		0.30	0.14	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Magnesium	**1400**		5.9	2.9	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Manganese	**1200**		0.59	0.086	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Nickel	**9.4**		0.59	0.17	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Potassium	**910**		30	11	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Selenium	**0.57**	**J**	0.59	0.35	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Silver	**0.17**	**J**	0.30	0.077	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Sodium	**68**		59	8.8	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Thallium	**2.2**		0.59	0.30	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Vanadium	**33**		0.30	0.070	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1
Zinc	**34**		1.2	0.52	mg/Kg	☼	05/11/21 09:21	05/13/21 17:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.30**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 14:04	1
Boron	**0.42**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:04	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (0-6)

Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13

Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 14:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:04	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:04	1
Iron	**0.20**	**J**	0.40	0.20	mg/L		05/13/21 18:06	05/14/21 14:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 14:04	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:04	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 14:04	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:04	1
Zinc	**0.049**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.018	0.0060	mg/Kg	☼	05/12/21 14:05	05/13/21 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**		0.2	0.2	SU			05/10/21 17:47	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (6-12)
Date Collected: 05/04/21 13:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-14
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Chloromethane	<0.0046	*-	0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/07/21 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*05/05/21 17:41*	*05/07/21 13:30*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*05/05/21 17:41*	*05/07/21 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/05/21 17:41*	*05/07/21 13:30*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/07/21 13:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (6-12)
Date Collected: 05/04/21 13:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-14
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4-Dinitrophenol	<0.80	*-	0.80	0.70	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Acenaphthene	<0.040		0.040	0.0071	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1

Client Sample ID: 3530-39-B05 (6-12)
Date Collected: 05/04/21 13:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-14
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:35	05/11/21 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*31 - 166*	*05/10/21 19:35*	*05/11/21 13:57*	*1*
Phenol-d5	*82*		*30 - 153*	*05/10/21 19:35*	*05/11/21 13:57*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*05/10/21 19:35*	*05/11/21 13:57*	*1*
2-Fluorobiphenyl	*64*		*43 - 145*	*05/10/21 19:35*	*05/11/21 13:57*	*1*
2,4,6-Tribromophenol	*52*		*31 - 143*	*05/10/21 19:35*	*05/11/21 13:57*	*1*
Terphenyl-d14	*115*		*42 - 157*	*05/10/21 19:35*	*05/11/21 13:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.1	0.22	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Arsenic	**4.2**		0.56	0.19	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Barium	**150**		0.56	0.064	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Beryllium	**0.80**		0.22	0.052	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Boron	**3.7**		2.8	0.26	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Cadmium	**0.038**	**J B**	0.11	0.020	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Calcium	**1600**	**B**	11	1.9	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Chromium	**17**		0.56	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Cobalt	**14**		0.28	0.074	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Copper	**8.8**		0.56	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Iron	**15000**		11	5.8	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Lead	**12**		0.28	0.13	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Magnesium	**1800**		5.6	2.8	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Manganese	**1100**		0.56	0.081	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Nickel	**24**		0.56	0.16	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Potassium	**570**		28	9.9	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Silver	**0.43**		0.28	0.072	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Sodium	**65**		56	8.3	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Thallium	**2.0**		0.56	0.28	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Vanadium	**31**		0.28	0.066	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1
Zinc	**31**		1.1	0.49	mg/Kg	☼	05/11/21 09:21	05/13/21 17:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.31**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 14:08	1
Boron	**0.26**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 14:08	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (6-12)

Date Collected: 05/04/21 13:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-14

Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 14:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:08	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 14:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 14:08	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:08	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 14:08	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 14:08	1
Zinc	**0.043**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 13:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.018	0.0062	mg/Kg	☼	05/12/21 14:05	05/13/21 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.9**		0.2	0.2	SU			05/10/21 17:50	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 597058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	5035	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	5035	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	5035	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	5035	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	5035	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	5035	
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	5035	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	5035	
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	5035	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	5035	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	5035	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	5035	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	5035	
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 597090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	8260B	597058
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	8260B	597058
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	8260B	597058
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	8260B	597058
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	8260B	597058
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	8260B	597058
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	8260B	597058
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	8260B	597058
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	8260B	597058
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	8260B	597058
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	8260B	597058
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	8260B	597058
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	8260B	597058
MB 500-597090/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597090/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-597090/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 597348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	8260B	597058
MB 500-597348/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597348/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-597348/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 597933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	3541	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	3541	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	3541	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	3541	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	3541	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 597933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	3541	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	3541	
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	3541	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	3541	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	3541	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	3541	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	3541	
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	3541	
MB 500-597933/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-597933/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-198673-1 MS	3530-39-B01 (0-5)	Total/NA	Solid	3541	
500-198673-1 MSD	3530-39-B01 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 598004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	8270D	597933
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	8270D	597933
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	8270D	597933
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	8270D	597933
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	8270D	597933
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	8270D	597933
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	8270D	597933
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	8270D	597933
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	8270D	597933
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	8270D	597933
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	8270D	597933
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	8270D	597933
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	8270D	597933
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	8270D	597933
MB 500-597933/1-A	Method Blank	Total/NA	Solid	8270D	597933
LCS 500-597933/2-A	Lab Control Sample	Total/NA	Solid	8270D	597933
500-198673-1 MS	3530-39-B01 (0-5)	Total/NA	Solid	8270D	597933
500-198673-1 MSD	3530-39-B01 (0-5)	Total/NA	Solid	8270D	597933

Metals

Prep Batch: 598040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	3050B	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	3050B	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	3050B	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	3050B	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	3050B	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	3050B	
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	3050B	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	3050B	
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	3050B	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	3050B	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	3050B	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	3050B	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 598040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	3050B	
MB 500-598040/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-598040/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-198673-1 MS	3530-39-B01 (0-5)	Total/NA	Solid	3050B	
500-198673-1 MSD	3530-39-B01 (0-5)	Total/NA	Solid	3050B	
500-198673-1 DU	3530-39-B01 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 598334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	7471B	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	7471B	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	7471B	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	7471B	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	7471B	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	7471B	
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	7471B	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	7471B	
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	7471B	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	7471B	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	7471B	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	7471B	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	7471B	
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	7471B	
MB 500-598334/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-598334/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-198673-8 MS	3530-39-B02 (6-12)	Total/NA	Solid	7471B	
500-198673-8 MSD	3530-39-B02 (6-12)	Total/NA	Solid	7471B	
500-198673-8 DU	3530-39-B02 (6-12)	Total/NA	Solid	7471B	

Leach Batch: 598388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	1311	
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	1311	
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	1311	
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	1311	
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	1311	
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	1311	
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	1311	
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	1311	
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	1311	
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	1311	
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	1311	
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	1311	
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	1311	
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	1311	
LB 500-598388/1-C	Method Blank	TCLP	Solid	1311	
LB 500-598388/1-D	Method Blank	TCLP	Solid	1311	
500-198673-5 MS	3530-39-B06 (0-6)D	TCLP	Solid	1311	
500-198673-5 DU	3530-39-B06 (0-6)D	TCLP	Solid	1311	

Metals

Leach Batch: 598390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-4	3530-39-B06 (0-6)	SPLP East	Solid	1312	
500-198673-7	3530-39-B02 (0-6)	SPLP East	Solid	1312	
500-198673-12	3530-39-B04 (6-12)	SPLP East	Solid	1312	
LB 500-598390/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 598607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	7471B	598334
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	7471B	598334
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	7471B	598334
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	7471B	598334
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	7471B	598334
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	7471B	598334
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	7471B	598334
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	7471B	598334
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	7471B	598334
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	7471B	598334
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	7471B	598334
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	7471B	598334
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	7471B	598334
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	7471B	598334
MB 500-598334/12-A	Method Blank	Total/NA	Solid	7471B	598334
LCS 500-598334/13-A	Lab Control Sample	Total/NA	Solid	7471B	598334
500-198673-8 MS	3530-39-B02 (6-12)	Total/NA	Solid	7471B	598334
500-198673-8 MSD	3530-39-B02 (6-12)	Total/NA	Solid	7471B	598334
500-198673-8 DU	3530-39-B02 (6-12)	Total/NA	Solid	7471B	598334

Prep Batch: 598637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	7470A	598388
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	7470A	598388
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	7470A	598388
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	7470A	598388
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598388
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	7470A	598388
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	7470A	598388
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	7470A	598388
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	7470A	598388
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	7470A	598388
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	7470A	598388
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	7470A	598388
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	7470A	598388
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	7470A	598388
LB 500-598388/1-C	Method Blank	TCLP	Solid	7470A	598388
MB 500-598637/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598637/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-198673-5 MS	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598388
500-198673-5 DU	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598388

Metals

Prep Batch: 598729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	3010A	598388
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	3010A	598388
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	3010A	598388
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	3010A	598388
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	3010A	598388
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	3010A	598388
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	3010A	598388
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	3010A	598388
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	3010A	598388
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	3010A	598388
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	3010A	598388
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	3010A	598388
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	3010A	598388
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	3010A	598388
LB 500-598388/1-D	Method Blank	TCLP	Solid	3010A	598388
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 598731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-4	3530-39-B06 (0-6)	SPLP East	Solid	3010A	598390
500-198673-7	3530-39-B02 (0-6)	SPLP East	Solid	3010A	598390
500-198673-12	3530-39-B04 (6-12)	SPLP East	Solid	3010A	598390
LB 500-598390/1-B	Method Blank	SPLP East	Solid	3010A	598390
LCS 500-598731/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 598869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	6010B	598040
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	6010B	598040
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	6010B	598040
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	6010B	598040
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	6010B	598040
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	6010B	598040
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	6010B	598040
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	6010B	598040
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	6010B	598040
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	6010B	598040
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	6010B	598040
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	6010B	598040
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	6010B	598040
MB 500-598040/1-A	Method Blank	Total/NA	Solid	6010B	598040
LCS 500-598040/2-A	Lab Control Sample	Total/NA	Solid	6010B	598040
500-198673-1 MS	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-1 MSD	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-1 DU	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040

Analysis Batch: 598908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	7470A	598637
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	7470A	598637

Metals (Continued)

Analysis Batch: 598908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	7470A	598637
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	7470A	598637
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598637
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	7470A	598637
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	7470A	598637
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	7470A	598637
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	7470A	598637
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	7470A	598637
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	7470A	598637
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	7470A	598637
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	7470A	598637
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	7470A	598637
LB 500-598388/1-C	Method Blank	TCLP	Solid	7470A	598637
MB 500-598637/12-A	Method Blank	Total/NA	Solid	7470A	598637
LCS 500-598637/14-A	Lab Control Sample	Total/NA	Solid	7470A	598637
500-198673-5 MS	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598637
500-198673-5 DU	3530-39-B06 (0-6)D	TCLP	Solid	7470A	598637

Analysis Batch: 598957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	6020A	598729
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	6020A	598729
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	6020A	598729
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	6020A	598729
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	6020A	598729
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	6020A	598729
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	6020A	598729
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	6020A	598729
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	6020A	598729
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	6020A	598729
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	6020A	598729
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	6020A	598729
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	6020A	598729
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	6020A	598729
LB 500-598388/1-D	Method Blank	TCLP	Solid	6020A	598729
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	6020A	598729

Analysis Batch: 598959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	6010B	598040
500-198673-1 MS	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-1 MSD	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040
500-198673-1 DU	3530-39-B01 (0-5)	Total/NA	Solid	6010B	598040

Analysis Batch: 598970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	TCLP	Solid	6010B	598729
500-198673-2	3530-39-B01 (5-10)	TCLP	Solid	6010B	598729
500-198673-3	3530-39-B01 (10-15)	TCLP	Solid	6010B	598729
500-198673-4	3530-39-B06 (0-6)	TCLP	Solid	6010B	598729

Metals (Continued)

Analysis Batch: 598970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-5	3530-39-B06 (0-6)D	TCLP	Solid	6010B	598729
500-198673-6	3530-39-B06 (6-12)	TCLP	Solid	6010B	598729
500-198673-7	3530-39-B02 (0-6)	TCLP	Solid	6010B	598729
500-198673-8	3530-39-B02 (6-12)	TCLP	Solid	6010B	598729
500-198673-9	3530-39-B03 (0-6)	TCLP	Solid	6010B	598729
500-198673-10	3530-39-B03 (6-12)	TCLP	Solid	6010B	598729
500-198673-11	3530-39-B04 (0-6)	TCLP	Solid	6010B	598729
500-198673-12	3530-39-B04 (6-12)	TCLP	Solid	6010B	598729
500-198673-13	3530-39-B05 (0-6)	TCLP	Solid	6010B	598729
500-198673-14	3530-39-B05 (6-12)	TCLP	Solid	6010B	598729
LB 500-598388/1-D	Method Blank	TCLP	Solid	6010B	598729
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	6010B	598729

Analysis Batch: 599204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-4	3530-39-B06 (0-6)	SPLP East	Solid	6010B	598731
500-198673-7	3530-39-B02 (0-6)	SPLP East	Solid	6010B	598731
500-198673-12	3530-39-B04 (6-12)	SPLP East	Solid	6010B	598731
LB 500-598390/1-B	Method Blank	SPLP East	Solid	6010B	598731
LCS 500-598731/2-A	Lab Control Sample	Total/NA	Solid	6010B	598731

General Chemistry

Analysis Batch: 597870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	Moisture	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	Moisture	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	Moisture	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	Moisture	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	Moisture	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	Moisture	
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	Moisture	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	Moisture	
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	Moisture	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	Moisture	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	Moisture	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	Moisture	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	Moisture	
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	Moisture	
500-198673-1 DU	3530-39-B01 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 597945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-1	3530-39-B01 (0-5)	Total/NA	Solid	9045D	
500-198673-2	3530-39-B01 (5-10)	Total/NA	Solid	9045D	
500-198673-3	3530-39-B01 (10-15)	Total/NA	Solid	9045D	
500-198673-4	3530-39-B06 (0-6)	Total/NA	Solid	9045D	
500-198673-5	3530-39-B06 (0-6)D	Total/NA	Solid	9045D	
500-198673-6	3530-39-B06 (6-12)	Total/NA	Solid	9045D	
500-198673-7	3530-39-B02 (0-6)	Total/NA	Solid	9045D	
500-198673-8	3530-39-B02 (6-12)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 597945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198673-9	3530-39-B03 (0-6)	Total/NA	Solid	9045D	
500-198673-10	3530-39-B03 (6-12)	Total/NA	Solid	9045D	
500-198673-11	3530-39-B04 (0-6)	Total/NA	Solid	9045D	
500-198673-12	3530-39-B04 (6-12)	Total/NA	Solid	9045D	
500-198673-13	3530-39-B05 (0-6)	Total/NA	Solid	9045D	
500-198673-14	3530-39-B05 (6-12)	Total/NA	Solid	9045D	
LCS 500-597945/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597945/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 600218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-600218/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-600218/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198673-1	3530-39-B01 (0-5)	83	102	102	97
500-198673-2	3530-39-B01 (5-10)	82	104	101	97
500-198673-3	3530-39-B01 (10-15)	82	105	104	97
500-198673-4	3530-39-B06 (0-6)	81	102	101	97
500-198673-5	3530-39-B06 (0-6)D	86	103	105	99
500-198673-6	3530-39-B06 (6-12)	82	104	104	96
500-198673-7	3530-39-B02 (0-6)	83	103	102	97
500-198673-8	3530-39-B02 (6-12)	80	103	103	96
500-198673-9	3530-39-B03 (0-6)	81	103	105	96
500-198673-10	3530-39-B03 (6-12)	80	105	104	95
500-198673-11	3530-39-B04 (0-6)	82	102	100	96
500-198673-12	3530-39-B04 (6-12)	83	102	101	97
500-198673-13	3530-39-B05 (0-6)	82	103	102	97
500-198673-14	3530-39-B05 (6-12)	82	105	103	97
LCS 500-597090/4	Lab Control Sample	80	91	89	101
LCS 500-597348/4	Lab Control Sample	78	92	89	100
LCSD 500-597090/5	Lab Control Sample Dup	78	93	90	100
LCSD 500-597348/5	Lab Control Sample Dup	80	93	91	100
MB 500-597090/7	Method Blank	85	102	97	98
MB 500-597348/7	Method Blank	86	101	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198673-1	3530-39-B01 (0-5)	103	105	96	110	95	132
500-198673-1 MS	3530-39-B01 (0-5)	88	88	84	92	74	93
500-198673-1 MSD	3530-39-B01 (0-5)	92	95	83	95	77	97
500-198673-2	3530-39-B01 (5-10)	86	78	86	94	49	126
500-198673-3	3530-39-B01 (10-15)	91	82	92	80	41	122
500-198673-4	3530-39-B06 (0-6)	95	98	92	103	57	121
500-198673-5	3530-39-B06 (0-6)D	98	93	95	105	59	124
500-198673-6	3530-39-B06 (6-12)	93	92	89	95	55	127
500-198673-7	3530-39-B02 (0-6)	95	94	90	100	62	133
500-198673-8	3530-39-B02 (6-12)	96	97	94	102	60	120
500-198673-9	3530-39-B03 (0-6)	92	91	86	76	30 S1-	117
500-198673-10	3530-39-B03 (6-12)	98	94	95	101	47	133
500-198673-11	3530-39-B04 (0-6)	82	86	84	92	44	113
500-198673-12	3530-39-B04 (6-12)	88	90	80	69	36	120
500-198673-13	3530-39-B05 (0-6)	77	80	74	65	44	104
500-198673-14	3530-39-B05 (6-12)	82	82	74	64	52	115
LCS 500-597933/2-A	Lab Control Sample	97	100	92	109	92	101

Surrogate Summary

Client: Environmental Design International, Inc. Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		2FP	PHL	NBZ	FBP	TBP	TPHL		
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)		
MB 500-597933/1-A	Method Blank	102	100	98	109	30 S1-	131		

Surrogate Legend

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

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

Lab Sample ID: MB 500-597090/7
Matrix: Solid
Analysis Batch: 597090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/06/21 11:30	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/06/21 11:30	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/06/21 11:30	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/06/21 11:30	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/06/21 11:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/06/21 11:30	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/06/21 11:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/06/21 11:30	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/06/21 11:30	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/06/21 11:30	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/06/21 11:30	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/06/21 11:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/06/21 11:30	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/06/21 11:30	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/06/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*75 - 131*		*05/06/21 11:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*05/06/21 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*05/06/21 11:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*05/06/21 11:30*	*1*

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

Lab Sample ID: LCS 500-597090/4
Matrix: Solid
Analysis Batch: 597090

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0435		mg/Kg		87	40 - 150
Benzene	0.0500	0.0492		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0513		mg/Kg		103	67 - 129
Bromoform	0.0500	0.0594		mg/Kg		119	68 - 136
Bromomethane	0.0500	0.0597		mg/Kg		119	70 - 130
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0465		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0529		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0543		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 125
Dibromochloromethane	0.0500	0.0569		mg/Kg		114	69 - 125
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0486		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125
Ethylbenzene	0.0500	0.0549		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0474		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0407		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0435		mg/Kg		87	50 - 140
Styrene	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0476		mg/Kg		95	70 - 122
Tetrachloroethene	0.0500	0.0564		mg/Kg		113	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
Trichloroethene	0.0500	0.0533		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0386		mg/Kg		77	40 - 153
Vinyl chloride	0.0500	0.0488		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*91*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*101*		*75 - 124*

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

Lab Sample ID: LCSD 500-597090/5
Matrix: Solid
Analysis Batch: 597090

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0438		mg/Kg		88	40 - 150	1	30
Benzene			0.0500	0.0499		mg/Kg		100	70 - 125	1	30
Bromodichloromethane			0.0500	0.0522		mg/Kg		104	67 - 129	2	30
Bromoform			0.0500	0.0615		mg/Kg		123	68 - 136	4	30
Bromomethane			0.0500	0.0605		mg/Kg		121	70 - 130	1	30
2-Butanone (MEK)			0.0500	0.0355		mg/Kg		71	47 - 138	16	30
Carbon disulfide			0.0500	0.0473		mg/Kg		95	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0475		mg/Kg		95	75 - 125	2	30
Chlorobenzene			0.0500	0.0539		mg/Kg		108	50 - 150	2	30
Chloroethane			0.0500	0.0573		mg/Kg		115	75 - 125	5	30
Chloroform			0.0500	0.0501		mg/Kg		100	57 - 135	1	30
Chloromethane			0.0500	0.0432		mg/Kg		86	70 - 125	5	30
cis-1,2-Dichloroethene			0.0500	0.0490		mg/Kg		98	70 - 125	2	30
cis-1,3-Dichloropropene			0.0500	0.0539		mg/Kg		108	70 - 125	4	30
Dibromochloromethane			0.0500	0.0585		mg/Kg		117	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0486		mg/Kg		97	70 - 130	0	30
1,1-Dichloroethene			0.0500	0.0492		mg/Kg		98	70 - 120	4	30
1,2-Dichloropropane			0.0500	0.0489		mg/Kg		98	70 - 125	4	30
Ethylbenzene			0.0500	0.0554		mg/Kg		111	61 - 136	1	30
2-Hexanone			0.0500	0.0433		mg/Kg		87	48 - 146	4	30
Methylene Chloride			0.0500	0.0487		mg/Kg		97	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0423		mg/Kg		85	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0455		mg/Kg		91	50 - 140	4	30
Styrene			0.0500	0.0558		mg/Kg		112	70 - 125	1	30
1,1,2,2-Tetrachloroethane			0.0500	0.0470		mg/Kg		94	70 - 122	1	30
Tetrachloroethene			0.0500	0.0571		mg/Kg		114	70 - 124	1	30
Toluene			0.0500	0.0534		mg/Kg		107	70 - 125	2	30
trans-1,2-Dichloroethene			0.0500	0.0513		mg/Kg		103	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0529		mg/Kg		106	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0476		mg/Kg		95	70 - 128	3	30
1,1,2-Trichloroethane			0.0500	0.0599		mg/Kg		120	70 - 125	3	30
Trichloroethene			0.0500	0.0549		mg/Kg		110	70 - 125	3	30
Vinyl acetate			0.0500	0.0400		mg/Kg		80	40 - 153	3	30
Vinyl chloride			0.0500	0.0497		mg/Kg		99	70 - 125	2	30
Xylenes, Total			0.100	0.102		mg/Kg		102	53 - 147	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: MB 500-597348/7
Matrix: Solid
Analysis Batch: 597348

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/07/21 11:21	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/07/21 11:21	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/07/21 11:21	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/07/21 11:21	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/07/21 11:21	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/07/21 11:21	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/07/21 11:21	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/07/21 11:21	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/07/21 11:21	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/07/21 11:21	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/07/21 11:21	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/07/21 11:21	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/07/21 11:21	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/07/21 11:21	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/07/21 11:21	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/07/21 11:21	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/07/21 11:21	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/07/21 11:21	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/07/21 11:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/07/21 11:21	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/07/21 11:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/07/21 11:21	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/07/21 11:21	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/07/21 11:21	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/07/21 11:21	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/07/21 11:21	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/07/21 11:21	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/07/21 11:21	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/07/21 11:21	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/07/21 11:21	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/07/21 11:21	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/07/21 11:21	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/07/21 11:21	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/07/21 11:21	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/07/21 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*05/07/21 11:21*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*05/07/21 11:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*05/07/21 11:21*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*		*05/07/21 11:21*	*1*

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

Lab Sample ID: LCS 500-597348/4
Matrix: Solid
Analysis Batch: 597348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0413		mg/Kg		83	40 - 150
Benzene	0.0500	0.0496		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0512		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0581		mg/Kg		116	68 - 136
Bromomethane	0.0500	0.0491		mg/Kg		98	70 - 130
2-Butanone (MEK)	0.0500	0.0380		mg/Kg		76	47 - 138
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0476		mg/Kg		95	75 - 125
Chlorobenzene	0.0500	0.0532		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0472		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0293	*-	mg/Kg		59	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
Dibromochloromethane	0.0500	0.0574		mg/Kg		115	69 - 125
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 125
Ethylbenzene	0.0500	0.0569		mg/Kg		114	61 - 136
2-Hexanone	0.0500	0.0415		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0405		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	50 - 140
Styrene	0.0500	0.0566		mg/Kg		113	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0453		mg/Kg		91	70 - 122
Tetrachloroethene	0.0500	0.0573		mg/Kg		115	70 - 124
Toluene	0.0500	0.0529		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,1-Trichloroethane	0.0500	0.0470		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0579		mg/Kg		116	70 - 125
Trichloroethene	0.0500	0.0536		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0365		mg/Kg		73	40 - 153
Vinyl chloride	0.0500	0.0376		mg/Kg		75	70 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-597348/5
Matrix: Solid
Analysis Batch: 597348

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0395		mg/Kg		79	40 - 150	4	30
Benzene			0.0500	0.0478		mg/Kg		96	70 - 125	4	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	1	30
Bromoform			0.0500	0.0586		mg/Kg		117	68 - 136	1	30
Bromomethane			0.0500	0.0499		mg/Kg		100	70 - 130	2	30
2-Butanone (MEK)			0.0500	0.0351		mg/Kg		70	47 - 138	8	30
Carbon disulfide			0.0500	0.0433		mg/Kg		87	70 - 129	6	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	5	30
Chlorobenzene			0.0500	0.0512		mg/Kg		102	50 - 150	4	30
Chloroethane			0.0500	0.0463		mg/Kg		93	75 - 125	2	30
Chloroform			0.0500	0.0480		mg/Kg		96	57 - 135	6	30
Chloromethane			0.0500	0.0289	*-	mg/Kg		58	70 - 125	1	30
cis-1,2-Dichloroethene			0.0500	0.0463		mg/Kg		93	70 - 125	4	30
cis-1,3-Dichloropropene			0.0500	0.0514		mg/Kg		103	70 - 125	1	30
Dibromochloromethane			0.0500	0.0572		mg/Kg		114	69 - 125	0	30
1,1-Dichloroethane			0.0500	0.0442		mg/Kg		88	70 - 125	5	30
1,2-Dichloroethane			0.0500	0.0475		mg/Kg		95	70 - 130	2	30
1,1-Dichloroethene			0.0500	0.0460		mg/Kg		92	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0472		mg/Kg		94	70 - 125	2	30
Ethylbenzene			0.0500	0.0536		mg/Kg		107	61 - 136	6	30
2-Hexanone			0.0500	0.0454		mg/Kg		91	48 - 146	9	30
Methylene Chloride			0.0500	0.0458		mg/Kg		92	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0447		mg/Kg		89	50 - 148	10	30
Methyl tert-butyl ether			0.0500	0.0436		mg/Kg		87	50 - 140	1	30
Styrene			0.0500	0.0533		mg/Kg		107	70 - 125	6	30
1,1,2,2-Tetrachloroethane			0.0500	0.0481		mg/Kg		96	70 - 122	6	30
Tetrachloroethene			0.0500	0.0559		mg/Kg		112	70 - 124	2	30
Toluene			0.0500	0.0507		mg/Kg		101	70 - 125	4	30
trans-1,2-Dichloroethene			0.0500	0.0476		mg/Kg		95	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0511		mg/Kg		102	70 - 125	1	30
1,1,1-Trichloroethane			0.0500	0.0447		mg/Kg		89	70 - 128	5	30
1,1,2-Trichloroethane			0.0500	0.0575		mg/Kg		115	70 - 125	1	30
Trichloroethene			0.0500	0.0525		mg/Kg		105	70 - 125	2	30
Vinyl acetate			0.0500	0.0392		mg/Kg		78	40 - 153	7	30
Vinyl chloride			0.0500	0.0389		mg/Kg		78	70 - 125	3	30
Xylenes, Total			0.100	0.0977		mg/Kg		98	53 - 147	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: MB 500-597933/1-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/10/21 19:35	05/11/21 12:32	1

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

Lab Sample ID: MB 500-597933/1-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/10/21 19:35	05/11/21 12:32	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/10/21 19:35	05/11/21 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*102*		*31 - 166*	*05/10/21 19:35*	*05/11/21 12:32*	*1*
Phenol-d5	*100*		*30 - 153*	*05/10/21 19:35*	*05/11/21 12:32*	*1*
Nitrobenzene-d5	*98*		*37 - 147*	*05/10/21 19:35*	*05/11/21 12:32*	*1*
2-Fluorobiphenyl	*109*		*43 - 145*	*05/10/21 19:35*	*05/11/21 12:32*	*1*
2,4,6-Tribromophenol	*30*	*S1-*	*31 - 143*	*05/10/21 19:35*	*05/11/21 12:32*	*1*
Terphenyl-d14	*131*		*42 - 157*	*05/10/21 19:35*	*05/11/21 12:32*	*1*

Lab Sample ID: LCS 500-597933/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.31		mg/Kg		98	56 - 122
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
1,3-Dichlorobenzene	1.33	1.18		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		90	61 - 110
1,2-Dichlorobenzene	1.33	1.20		mg/Kg		90	62 - 110
2-Methylphenol	1.33	1.39		mg/Kg		104	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.60		mg/Kg		120	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.18		mg/Kg		89	56 - 118
Hexachloroethane	1.33	1.14		mg/Kg		85	60 - 114
2-Chlorophenol	1.33	1.21		mg/Kg		91	64 - 110
Nitrobenzene	1.33	1.26		mg/Kg		95	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	60 - 112
1,2,4-Trichlorobenzene	1.33	1.32		mg/Kg		99	66 - 117
Isophorone	1.33	1.23		mg/Kg		92	55 - 110
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Hexachlorobutadiene	1.33	1.34		mg/Kg		100	56 - 120
Naphthalene	1.33	1.28		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.31		mg/Kg		98	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

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

Lab Sample ID: LCS 500-597933/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.25		mg/Kg		93	30 - 150
2,4,6-Trichlorophenol	1.33	1.27		mg/Kg		96	57 - 120
2,4,5-Trichlorophenol	1.33	1.44		mg/Kg		108	50 - 120
Hexachlorocyclopentadiene	1.33	0.932		mg/Kg		70	10 - 133
2-Methylnaphthalene	1.33	1.35		mg/Kg		102	69 - 112
2-Nitroaniline	1.33	1.44		mg/Kg		108	57 - 124
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
4-Chloro-3-methylphenol	1.33	1.37		mg/Kg		103	65 - 122
2,6-Dinitrotoluene	1.33	1.41		mg/Kg		106	70 - 123
2-Nitrophenol	1.33	1.24		mg/Kg		93	60 - 120
3-Nitroaniline	1.33	1.20		mg/Kg		90	40 - 122
Dimethyl phthalate	1.33	1.33		mg/Kg		99	69 - 116
2,4-Dinitrophenol	2.67	<0.67	*-	mg/Kg		3	10 - 100
Acenaphthylene	1.33	1.35		mg/Kg		101	68 - 120
2,4-Dinitrotoluene	1.33	1.50		mg/Kg		113	69 - 124
Acenaphthene	1.33	1.34		mg/Kg		100	65 - 124
Dibenzofuran	1.33	1.43		mg/Kg		107	66 - 115
4-Nitrophenol	2.67	2.88		mg/Kg		108	30 - 122
Fluorene	1.33	1.38		mg/Kg		104	62 - 120
4-Nitroaniline	1.33	1.24		mg/Kg		93	60 - 160
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		100	68 - 118
Hexachlorobenzene	1.33	1.40		mg/Kg		105	63 - 124
Diethyl phthalate	1.33	1.36		mg/Kg		102	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.43		mg/Kg		107	62 - 119
Pentachlorophenol	2.67	1.50		mg/Kg		56	13 - 112
N-Nitrosodiphenylamine	1.33	1.34		mg/Kg		100	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.386	J	mg/Kg		14	10 - 110
Phenanthrene	1.33	1.40		mg/Kg		105	62 - 120
Anthracene	1.33	1.40		mg/Kg		105	70 - 114
Carbazole	1.33	1.59		mg/Kg		119	65 - 142
Di-n-butyl phthalate	1.33	1.33		mg/Kg		100	65 - 120
Fluoranthene	1.33	1.49		mg/Kg		112	62 - 120
Pyrene	1.33	1.34		mg/Kg		100	61 - 128
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	71 - 129
Benzo[a]anthracene	1.33	1.30		mg/Kg		98	67 - 122
Chrysene	1.33	1.32		mg/Kg		99	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	72 - 131
Di-n-octyl phthalate	1.33	1.30		mg/Kg		98	68 - 134
Benzo[b]fluoranthene	1.33	1.33		mg/Kg		100	69 - 129
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	68 - 127
Benzo[a]pyrene	1.33	1.55		mg/Kg		116	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.52		mg/Kg		114	68 - 130
Dibenz(a,h)anthracene	1.33	1.50		mg/Kg		113	64 - 131
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	72 - 131
3 & 4 Methylphenol	1.33	1.22		mg/Kg		91	57 - 120

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

Lab Sample ID: LCS 500-597933/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597933

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	*97*		*31 - 166*
Phenol-d5	*100*		*30 - 153*
Nitrobenzene-d5	*92*		*37 - 147*
2-Fluorobiphenyl	*109*		*43 - 145*
2,4,6-Tribromophenol	*92*		*31 - 143*
Terphenyl-d14	*101*		*42 - 157*

Lab Sample ID: 500-198673-1 MS
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: 3530-39-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 597933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.20		1.59	1.37		mg/Kg	☼	86	56 - 122
Bis(2-chloroethyl)ether	<0.20		1.59	1.18		mg/Kg	☼	74	55 - 111
1,3-Dichlorobenzene	<0.20		1.59	1.11		mg/Kg	☼	70	60 - 110
1,4-Dichlorobenzene	<0.20		1.59	1.14		mg/Kg	☼	72	61 - 110
1,2-Dichlorobenzene	<0.20		1.59	1.17		mg/Kg	☼	74	62 - 110
2-Methylphenol	<0.20		1.59	1.51		mg/Kg	☼	95	60 - 120
2,2'-oxybis[1-chloropropane]	<0.20		1.59	1.60		mg/Kg	☼	101	40 - 124
N-Nitrosodi-n-propylamine	<0.081		1.59	1.20		mg/Kg	☼	76	56 - 118
Hexachloroethane	<0.20		1.59	1.02		mg/Kg	☼	64	60 - 114
2-Chlorophenol	<0.20		1.59	1.30		mg/Kg	☼	82	64 - 110
Nitrobenzene	<0.040		1.59	1.34		mg/Kg	☼	84	60 - 116
Bis(2-chloroethoxy)methane	<0.20		1.59	1.33		mg/Kg	☼	84	60 - 112
1,2,4-Trichlorobenzene	<0.20		1.59	1.27		mg/Kg	☼	80	66 - 117
Isophorone	<0.20		1.59	1.35		mg/Kg	☼	85	55 - 110
2,4-Dimethylphenol	<0.40		1.59	1.37		mg/Kg	☼	86	60 - 110
Hexachlorobutadiene	<0.20		1.59	1.23		mg/Kg	☼	78	56 - 120
Naphthalene	<0.040		1.59	1.32		mg/Kg	☼	83	63 - 110
2,4-Dichlorophenol	<0.40		1.59	1.39		mg/Kg	☼	87	58 - 120
4-Chloroaniline	<0.81		1.59	1.02		mg/Kg	☼	64	30 - 150
2,4,6-Trichlorophenol	<0.40		1.59	1.31		mg/Kg	☼	82	57 - 120
2,4,5-Trichlorophenol	<0.40		1.59	1.56		mg/Kg	☼	98	50 - 120
Hexachlorocyclopentadiene	<0.81		1.59	0.412	J	mg/Kg	☼	26	10 - 133
2-Methylnaphthalene	<0.081		1.59	1.43		mg/Kg	☼	90	69 - 112
2-Nitroaniline	<0.20		1.59	1.63		mg/Kg	☼	103	57 - 124
2-Chloronaphthalene	<0.20		1.59	1.34		mg/Kg	☼	84	69 - 114
4-Chloro-3-methylphenol	<0.40		1.59	1.48		mg/Kg	☼	94	65 - 122
2,6-Dinitrotoluene	<0.20		1.59	1.48		mg/Kg	☼	93	70 - 123
2-Nitrophenol	<0.40		1.59	1.30		mg/Kg	☼	82	60 - 120
3-Nitroaniline	<0.40		1.59	1.21		mg/Kg	☼	77	40 - 122
Dimethyl phthalate	<0.20		1.59	1.46		mg/Kg	☼	92	69 - 116
2,4-Dinitrophenol	<0.81	F1 *-	3.17	<0.80	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.040		1.59	1.42		mg/Kg	☼	89	68 - 120
2,4-Dinitrotoluene	<0.20		1.59	1.58		mg/Kg	☼	100	69 - 124
Acenaphthene	<0.040		1.59	1.39		mg/Kg	☼	87	65 - 124
Dibenzofuran	<0.20		1.59	1.55		mg/Kg	☼	98	66 - 115
4-Nitrophenol	<0.81		3.17	2.72		mg/Kg	☼	86	30 - 122

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

Lab Sample ID: 500-198673-1 MS **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598004 **Prep Batch: 597933**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.040		1.59	1.48		mg/Kg	☼	93	62 - 120
4-Nitroaniline	<0.40		1.59	1.21		mg/Kg	☼	76	60 - 160
4-Bromophenyl phenyl ether	<0.20		1.59	1.53		mg/Kg	☼	97	68 - 118
Hexachlorobenzene	<0.081		1.59	1.54		mg/Kg	☼	97	63 - 124
Diethyl phthalate	<0.20		1.59	1.51		mg/Kg	☼	96	58 - 120
4-Chlorophenyl phenyl ether	<0.20		1.59	1.52		mg/Kg	☼	96	62 - 119
Pentachlorophenol	<0.81		3.17	1.57		mg/Kg	☼	49	13 - 112
N-Nitrosodiphenylamine	<0.20		1.59	1.49		mg/Kg	☼	94	65 - 112
4,6-Dinitro-2-methylphenol	<0.81	F2	3.17	0.736	J	mg/Kg	☼	23	10 - 110
Phenanthrene	<0.040		1.59	1.54		mg/Kg	☼	97	62 - 120
Anthracene	<0.040		1.59	1.53		mg/Kg	☼	96	70 - 114
Carbazole	<0.20		1.59	1.71		mg/Kg	☼	108	65 - 142
Di-n-butyl phthalate	<0.20		1.59	1.59		mg/Kg	☼	100	65 - 120
Fluoranthene	<0.040		1.59	1.65		mg/Kg	☼	104	62 - 120
Pyrene	<0.040		1.59	1.49		mg/Kg	☼	94	61 - 128
Butyl benzyl phthalate	<0.20		1.59	1.31		mg/Kg	☼	82	71 - 129
Benzo[a]anthracene	<0.040		1.59	1.39		mg/Kg	☼	87	67 - 122
Chrysene	<0.040		1.59	1.46		mg/Kg	☼	92	63 - 120
3,3'-Dichlorobenzidine	<0.20		1.59	0.696		mg/Kg	☼	44	35 - 128
Bis(2-ethylhexyl) phthalate	<0.20		1.59	1.41		mg/Kg	☼	89	72 - 131
Di-n-octyl phthalate	<0.20		1.59	1.44		mg/Kg	☼	91	68 - 134
Benzo[b]fluoranthene	<0.040		1.59	1.48		mg/Kg	☼	93	69 - 129
Benzo[k]fluoranthene	<0.040		1.59	1.57		mg/Kg	☼	99	68 - 127
Benzo[a]pyrene	<0.040		1.59	1.70		mg/Kg	☼	107	65 - 133
Indeno[1,2,3-cd]pyrene	<0.040		1.59	1.38		mg/Kg	☼	87	68 - 130
Dibenz(a,h)anthracene	<0.040		1.59	1.40		mg/Kg	☼	88	64 - 131
Benzo[g,h,i]perylene	<0.040		1.59	1.27		mg/Kg	☼	80	72 - 131
3 & 4 Methylphenol	<0.20		1.59	1.25		mg/Kg	☼	79	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*88*		*31 - 166*
Phenol-d5	*88*		*30 - 153*
Nitrobenzene-d5	*84*		*37 - 147*
2-Fluorobiphenyl	*92*		*43 - 145*
2,4,6-Tribromophenol	*74*		*31 - 143*
Terphenyl-d14	*93*		*42 - 157*

Lab Sample ID: 500-198673-1 MSD **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598004 **Prep Batch: 597933**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.20		1.59	1.56		mg/Kg	☼	98	56 - 122	13	30
Bis(2-chloroethyl)ether	<0.20		1.59	1.20		mg/Kg	☼	76	55 - 111	2	30
1,3-Dichlorobenzene	<0.20		1.59	1.15		mg/Kg	☼	72	60 - 110	3	30
1,4-Dichlorobenzene	<0.20		1.59	1.17		mg/Kg	☼	73	61 - 110	3	30
1,2-Dichlorobenzene	<0.20		1.59	1.19		mg/Kg	☼	75	62 - 110	2	30
2-Methylphenol	<0.20		1.59	1.63		mg/Kg	☼	103	60 - 120	8	30

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

Lab Sample ID: 500-198673-1 MSD
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: 3530-39-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 597933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	<0.20		1.59	1.62		mg/Kg	☼	102	40 - 124	1	30
N-Nitrosodi-n-propylamine	<0.081		1.59	1.33		mg/Kg	☼	83	56 - 118	10	30
Hexachloroethane	<0.20		1.59	1.03		mg/Kg	☼	65	60 - 114	1	30
2-Chlorophenol	<0.20		1.59	1.42		mg/Kg	☼	89	64 - 110	9	30
Nitrobenzene	<0.040		1.59	1.43		mg/Kg	☼	90	60 - 116	6	30
Bis(2-chloroethoxy)methane	<0.20		1.59	1.38		mg/Kg	☼	87	60 - 112	4	30
1,2,4-Trichlorobenzene	<0.20		1.59	1.30		mg/Kg	☼	82	66 - 117	2	30
Isophorone	<0.20		1.59	1.41		mg/Kg	☼	89	55 - 110	5	30
2,4-Dimethylphenol	<0.40		1.59	1.46		mg/Kg	☼	92	60 - 110	6	30
Hexachlorobutadiene	<0.20		1.59	1.18		mg/Kg	☼	74	56 - 120	5	30
Naphthalene	<0.040		1.59	1.34		mg/Kg	☼	85	63 - 110	2	30
2,4-Dichlorophenol	<0.40		1.59	1.47		mg/Kg	☼	92	58 - 120	6	30
4-Chloroaniline	<0.81		1.59	1.29		mg/Kg	☼	81	30 - 150	24	30
2,4,6-Trichlorophenol	<0.40		1.59	1.41		mg/Kg	☼	89	57 - 120	8	30
2,4,5-Trichlorophenol	<0.40		1.59	1.59		mg/Kg	☼	100	50 - 120	2	30
Hexachlorocyclopentadiene	<0.81		1.59	0.421	J	mg/Kg	☼	27	10 - 133	2	30
2-Methylnaphthalene	<0.081		1.59	1.47		mg/Kg	☼	93	69 - 112	3	30
2-Nitroaniline	<0.20		1.59	1.67		mg/Kg	☼	105	57 - 124	3	30
2-Chloronaphthalene	<0.20		1.59	1.40		mg/Kg	☼	88	69 - 114	4	30
4-Chloro-3-methylphenol	<0.40		1.59	1.55		mg/Kg	☼	98	65 - 122	4	30
2,6-Dinitrotoluene	<0.20		1.59	1.61		mg/Kg	☼	102	70 - 123	9	30
2-Nitrophenol	<0.40		1.59	1.41		mg/Kg	☼	88	60 - 120	8	30
3-Nitroaniline	<0.40		1.59	1.43		mg/Kg	☼	90	40 - 122	16	30
Dimethyl phthalate	<0.20		1.59	1.54		mg/Kg	☼	97	69 - 116	5	30
2,4-Dinitrophenol	<0.81	F1 *-	3.18	<0.80	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.040		1.59	1.50		mg/Kg	☼	95	68 - 120	6	30
2,4-Dinitrotoluene	<0.20		1.59	1.68		mg/Kg	☼	106	69 - 124	6	30
Acenaphthene	<0.040		1.59	1.49		mg/Kg	☼	94	65 - 124	7	30
Dibenzofuran	<0.20		1.59	1.63		mg/Kg	☼	102	66 - 115	5	30
4-Nitrophenol	<0.81		3.18	2.65		mg/Kg	☼	83	30 - 122	3	30
Fluorene	<0.040		1.59	1.59		mg/Kg	☼	100	62 - 120	7	30
4-Nitroaniline	<0.40		1.59	1.43		mg/Kg	☼	90	60 - 160	17	30
4-Bromophenyl phenyl ether	<0.20		1.59	1.62		mg/Kg	☼	102	68 - 118	6	30
Hexachlorobenzene	<0.081		1.59	1.63		mg/Kg	☼	102	63 - 124	5	30
Diethyl phthalate	<0.20		1.59	1.57		mg/Kg	☼	99	58 - 120	3	30
4-Chlorophenyl phenyl ether	<0.20		1.59	1.60		mg/Kg	☼	101	62 - 119	5	30
Pentachlorophenol	<0.81		3.18	1.89		mg/Kg	☼	60	13 - 112	19	30
N-Nitrosodiphenylamine	<0.20		1.59	1.60		mg/Kg	☼	101	65 - 112	7	30
4,6-Dinitro-2-methylphenol	<0.81	F2	3.18	1.05	F2	mg/Kg	☼	33	10 - 110	35	30
Phenanthrene	<0.040		1.59	1.66		mg/Kg	☼	105	62 - 120	8	30
Anthracene	<0.040		1.59	1.63		mg/Kg	☼	102	70 - 114	6	30
Carbazole	<0.20		1.59	1.91		mg/Kg	☼	120	65 - 142	11	30
Di-n-butyl phthalate	<0.20		1.59	1.75		mg/Kg	☼	110	65 - 120	10	30
Fluoranthene	<0.040		1.59	1.76		mg/Kg	☼	111	62 - 120	7	30
Pyrene	<0.040		1.59	1.57		mg/Kg	☼	99	61 - 128	5	30
Butyl benzyl phthalate	<0.20		1.59	1.40		mg/Kg	☼	88	71 - 129	7	30
Benzo[a]anthracene	<0.040		1.59	1.52		mg/Kg	☼	96	67 - 122	10	30
Chrysene	<0.040		1.59	1.54		mg/Kg	☼	97	63 - 120	5	30
3,3'-Dichlorobenzidine	<0.20		1.59	0.879		mg/Kg	☼	55	35 - 128	23	30

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

Lab Sample ID: 500-198673-1 MSD **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598004 **Prep Batch: 597933**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	<0.20		1.59	1.50		mg/Kg	☼	95	72 - 131	7	30
Di-n-octyl phthalate	<0.20		1.59	1.52		mg/Kg	☼	96	68 - 134	5	30
Benzo[b]fluoranthene	<0.040		1.59	1.68		mg/Kg	☼	106	69 - 129	12	30
Benzo[k]fluoranthene	<0.040		1.59	1.57		mg/Kg	☼	99	68 - 127	0	30
Benzo[a]pyrene	<0.040		1.59	1.81		mg/Kg	☼	114	65 - 133	7	30
Indeno[1,2,3-cd]pyrene	<0.040		1.59	1.43		mg/Kg	☼	90	68 - 130	3	30
Dibenz(a,h)anthracene	<0.040		1.59	1.43		mg/Kg	☼	90	64 - 131	2	30
Benzo[g,h,i]perylene	<0.040		1.59	1.30		mg/Kg	☼	82	72 - 131	3	30
3 & 4 Methylphenol	<0.20		1.59	1.31		mg/Kg	☼	83	57 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*92*		*31 - 166*
Phenol-d5	*95*		*30 - 153*
Nitrobenzene-d5	*83*		*37 - 147*
2-Fluorobiphenyl	*95*		*43 - 145*
2,4,6-Tribromophenol	*77*		*31 - 143*
Terphenyl-d14	*97*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-598731/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 599204 **Prep Batch: 598731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0446		mg/L		89	80 - 120
Lead	0.100	0.0896		mg/L		90	80 - 120

Lab Sample ID: LB 500-598390/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: SPLP East**
Analysis Batch: 599204 **Prep Batch: 598731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:10	05/14/21 16:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:10	05/14/21 16:42	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-598040/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598869 **Prep Batch: 598040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Barium	<1.0		1.0	0.11	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Boron	<5.0		5.0	0.47	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Cadmium	0.0851	J	0.20	0.036	mg/Kg		05/11/21 09:21	05/13/21 15:57	1

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

Lab Sample ID: MB 500-598040/1-A
Matrix: Solid
Analysis Batch: 598869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.79	J	20	3.4	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Copper	<1.0		1.0	0.28	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Iron	<20		20	10	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Lead	<0.50		0.50	0.23	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Magnesium	<10		10	5.0	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Potassium	<50		50	18	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Silver	<0.50		0.50	0.13	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Sodium	<100		100	15	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/11/21 09:21	05/13/21 15:57	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/11/21 09:21	05/13/21 15:57	1

Lab Sample ID: LCS 500-598040/2-A
Matrix: Solid
Analysis Batch: 598869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.1		mg/Kg		94	80 - 120
Arsenic	10.0	9.01		mg/Kg		90	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.80		mg/Kg		96	80 - 120
Boron	100	84.1		mg/Kg		84	80 - 120
Cadmium	5.00	4.49		mg/Kg		90	80 - 120
Calcium	1000	993		mg/Kg		99	80 - 120
Chromium	20.0	19.7		mg/Kg		98	80 - 120
Cobalt	50.0	47.1		mg/Kg		94	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.08		mg/Kg		91	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Manganese	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	964		mg/Kg		96	80 - 120
Selenium	10.0	8.30		mg/Kg		83	80 - 120
Silver	5.00	4.72		mg/Kg		94	80 - 120
Sodium	1000	987		mg/Kg		99	80 - 120
Thallium	10.0	9.19		mg/Kg		92	80 - 120
Vanadium	50.0	48.4		mg/Kg		97	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

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

Lab Sample ID: 500-198673-1 MS
Matrix: Solid
Analysis Batch: 598869

Client Sample ID: 3530-39-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 598040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.74	J F1	29.8	6.77	F1	mg/Kg	☼	20	75 - 125
Arsenic	8.7	F1	5.96	12.4	F1	mg/Kg	☼	61	75 - 125
Barium	110	F1	119	176	F1	mg/Kg	☼	59	75 - 125
Beryllium	0.67		2.98	3.19		mg/Kg	☼	85	75 - 125
Boron	2.8	J F1	59.6	42.8	F1	mg/Kg	☼	67	75 - 125
Cadmium	<0.12		2.98	2.29		mg/Kg	☼	77	75 - 125
Calcium	1000	B	596	1490		mg/Kg	☼	81	75 - 125
Chromium	18		11.9	30.6		mg/Kg	☼	109	75 - 125
Copper	12		14.9	24.2		mg/Kg	☼	84	75 - 125
Iron	20000		59.6	19000	4	mg/Kg	☼	-1436	75 - 125
Lead	15	F1	5.96	17.0	F1	mg/Kg	☼	30	75 - 125
Magnesium	2000	F1	596	2880	F1	mg/Kg	☼	141	75 - 125
Manganese	1100	F2	29.8	346	4	mg/Kg	☼	-2585	75 - 125
Nickel	12		29.8	40.2		mg/Kg	☼	94	75 - 125
Potassium	980	F1	596	1930	F1	mg/Kg	☼	159	75 - 125
Selenium	0.42	J F1	5.96	4.45	F1	mg/Kg	☼	68	75 - 125
Silver	0.23	J	2.98	2.90		mg/Kg	☼	90	75 - 125
Sodium	46	J	596	575		mg/Kg	☼	89	75 - 125
Thallium	2.0	F1	5.96	6.41	F1	mg/Kg	☼	73	75 - 125
Vanadium	35		29.8	65.0		mg/Kg	☼	99	75 - 125
Zinc	47		29.8	79.7		mg/Kg	☼	109	75 - 125

Lab Sample ID: 500-198673-1 MS
Matrix: Solid
Analysis Batch: 598959

Client Sample ID: 3530-39-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 598040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	8.9		29.8	35.0		mg/Kg	☼	87	75 - 125

Lab Sample ID: 500-198673-1 MSD
Matrix: Solid
Analysis Batch: 598869

Client Sample ID: 3530-39-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 598040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.74	J F1	29.0	6.79	F1	mg/Kg	☼	21	75 - 125	0	20
Arsenic	8.7	F1	5.79	13.1		mg/Kg	☼	75	75 - 125	6	20
Barium	110	F1	116	176	F1	mg/Kg	☼	60	75 - 125	0	20
Beryllium	0.67		2.90	3.16		mg/Kg	☼	86	75 - 125	1	20
Boron	2.8	J F1	57.9	40.7	F1	mg/Kg	☼	65	75 - 125	5	20
Cadmium	<0.12		2.90	2.19		mg/Kg	☼	76	75 - 125	5	20
Calcium	1000	B	579	1580		mg/Kg	☼	99	75 - 125	6	20
Chromium	18		11.6	31.2		mg/Kg	☼	117	75 - 125	2	20
Copper	12		14.5	24.5		mg/Kg	☼	89	75 - 125	1	20
Iron	20000		57.9	20900	4	mg/Kg	☼	1869	75 - 125	10	20
Lead	15	F1	5.79	18.5	F1	mg/Kg	☼	56	75 - 125	8	20
Magnesium	2000	F1	579	3010	F1	mg/Kg	☼	167	75 - 125	4	20
Manganese	1100	F2	29.0	442	4 F2	mg/Kg	☼	-2331	75 - 125	24	20
Nickel	12		29.0	39.4		mg/Kg	☼	94	75 - 125	2	20
Potassium	980	F1	579	1920	F1	mg/Kg	☼	163	75 - 125	0	20

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

Lab Sample ID: 500-198673-1 MSD — **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598869 — **Prep Batch: 598040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.42	J F1	5.79	4.41	F1	mg/Kg	☼	69	75 - 125	1	20
Silver	0.23	J	2.90	2.77		mg/Kg	☼	88	75 - 125	5	20
Sodium	46	J	579	553		mg/Kg	☼	88	75 - 125	4	20
Thallium	2.0	F1	5.79	6.35		mg/Kg	☼	75	75 - 125	1	20
Vanadium	35		29.0	66.3		mg/Kg	☼	107	75 - 125	2	20
Zinc	47		29.0	80.9		mg/Kg	☼	116	75 - 125	1	20

Lab Sample ID: 500-198673-1 MSD — **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598959 — **Prep Batch: 598040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	8.9		29.0	34.5		mg/Kg	☼	88	75 - 125	1	20

Lab Sample ID: 500-198673-1 DU — **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598869 — **Prep Batch: 598040**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.74	J F1	0.635	J	mg/Kg	☼	15	20
Arsenic	8.7	F1	7.39		mg/Kg	☼	17	20
Barium	110	F1	122		mg/Kg	☼	14	20
Beryllium	0.67		0.628		mg/Kg	☼	6	20
Boron	2.8	J F1	3.12		mg/Kg	☼	11	20
Cadmium	<0.12		<0.12		mg/Kg	☼	NC	20
Calcium	1000	B	881		mg/Kg	☼	13	20
Chromium	18		16.8		mg/Kg	☼	4	20
Copper	12		10.9		mg/Kg	☼	7	20
Iron	20000		18000		mg/Kg	☼	9	20
Lead	15	F1	12.5		mg/Kg	☼	19	20
Magnesium	2000	F1	1930		mg/Kg	☼	6	20
Manganese	1100	F2	1100		mg/Kg	☼	1	20
Nickel	12		11.3		mg/Kg	☼	7	20
Potassium	980	F1	988		mg/Kg	☼	0.7	20
Selenium	0.42	J F1	0.511	J	mg/Kg	☼	20	20
Silver	0.23	J	0.246	J	mg/Kg	☼	7	20
Sodium	46	J	45.3	J	mg/Kg	☼	1	20
Thallium	2.0	F1	2.15		mg/Kg	☼	6	20
Vanadium	35		34.3		mg/Kg	☼	3	20
Zinc	47		44.1		mg/Kg	☼	7	20

Lab Sample ID: 500-198673-1 DU — **Client Sample ID: 3530-39-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598959 — **Prep Batch: 598040**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	8.9		8.83		mg/Kg	☼	1	20

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

Lab Sample ID: LCS 500-598729/2-A
Matrix: Solid
Analysis Batch: 598970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.529		mg/L		106	80 - 120
Beryllium	0.0500	0.0471		mg/L		94	80 - 120
Boron	1.00	0.890		mg/L		89	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.535		mg/L		107	80 - 120
Iron	1.00	1.19		mg/L		119	80 - 120
Lead	0.100	0.0950		mg/L		95	80 - 120
Nickel	0.500	0.524		mg/L		105	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Silver	0.0500	0.0553		mg/L		111	80 - 120
Zinc	0.500	0.577		mg/L		115	80 - 120

Lab Sample ID: LB 500-598388/1-D
Matrix: Solid
Analysis Batch: 598970

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598729

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/13/21 18:06	05/14/21 11:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 11:50	1
Boron	<0.50		0.50	0.050	mg/L		05/13/21 18:06	05/14/21 11:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 11:50	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 11:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 11:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 11:50	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Zinc	<0.50		0.50	0.020	mg/L		05/13/21 18:06	05/14/21 11:50	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-598729/2-A
Matrix: Solid
Analysis Batch: 598957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.531	^1+ ^+	mg/L		106	80 - 120
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LB 500-598388/1-D
Matrix: Solid
Analysis Batch: 598957

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598729

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:50	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-598637/12-A
Matrix: Solid
Analysis Batch: 598908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:20	1

Lab Sample ID: LCS 500-598637/14-A
Matrix: Solid
Analysis Batch: 598908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598637

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00190		mg/L		95	80 - 120		

Lab Sample ID: LB 500-598388/1-C
Matrix: Solid
Analysis Batch: 598908

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598637

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:23	1

Lab Sample ID: 500-198673-5 MS
Matrix: Solid
Analysis Batch: 598908

Client Sample ID: 3530-39-B06 (0-6)D
Prep Type: TCLP
Prep Batch: 598637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00020		0.00100	0.000918		mg/L		92	75 - 125		

Lab Sample ID: 500-198673-5 DU
Matrix: Solid
Analysis Batch: 598908

Client Sample ID: 3530-39-B06 (0-6)D
Prep Type: TCLP
Prep Batch: 598637

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	<0.00020			<0.00020		mg/L				NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-598334/12-A
Matrix: Solid
Analysis Batch: 598607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/12/21 14:05	05/13/21 08:15	1

Lab Sample ID: LCS 500-598334/13-A
Matrix: Solid
Analysis Batch: 598607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598334

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.178		mg/Kg		107	80 - 120		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-198673-8 MS — **Client Sample ID: 3530-39-B02 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598607 — **Prep Batch: 598334**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.018	J F1	0.0947	0.132		mg/Kg	☼	120	75 - 125		

Lab Sample ID: 500-198673-8 MSD — **Client Sample ID: 3530-39-B02 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598607 — **Prep Batch: 598334**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018	J F1	0.0948	0.150	F1	mg/Kg	☼	139	75 - 125	13	20

Lab Sample ID: 500-198673-8 DU — **Client Sample ID: 3530-39-B02 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598607 — **Prep Batch: 598334**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.018	J F1		0.0321	F5	mg/Kg	☼			56	20

Client Sample ID: 3530-39-B01 (0-5)

Lab Sample ID: 500-198673-1

Date Collected: 05/04/21 10:40

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:37	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:53	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:15	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B01 (0-5)

Lab Sample ID: 500-198673-1

Date Collected: 05/04/21 10:40

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 13:14	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 13:15	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:04	JJB	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598959	05/14/21 12:49	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:18	MJG	TAL CHI

Client Sample ID: 3530-39-B01 (5-10)

Lab Sample ID: 500-198673-2

Date Collected: 05/04/21 10:50

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:40	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:54	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:17	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B01 (5-10)

Lab Sample ID: 500-198673-2

Date Collected: 05/04/21 10:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 13:40	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 14:18	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:20	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:21	MJG	TAL CHI

Client Sample ID: 3530-39-B01 (10-15)

Lab Sample ID: 500-198673-3

Date Collected: 05/04/21 11:00
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:51	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:57	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:46	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B01 (10-15)

Lab Sample ID: 500-198673-3

Date Collected: 05/04/21 11:00
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 14:06	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 14:40	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:23	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:23	MJG	TAL CHI

Client Sample ID: 3530-39-B06 (0-6) Lab Sample ID: 500-198673-4

Date Collected: 05/04/21 11:25 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598390	05/12/21 15:13	CMS	TAL CHI
SPLP East	Prep	3010A			598731	05/13/21 18:10	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599204	05/14/21 17:01	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:55	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:58	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:48	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B06 (0-6) Lab Sample ID: 500-198673-4

Date Collected: 05/04/21 11:25 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 14:31	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 17:30	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:26	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:24	MJG	TAL CHI

Client Sample ID: 3530-39-B06 (0-6)D Lab Sample ID: 500-198673-5

Date Collected: 05/04/21 11:25 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:58	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:59	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:50	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:25	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B06 (0-6)D

Lab Sample ID: 500-198673-5

Date Collected: 05/04/21 11:25

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 14:58	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 17:51	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:36	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:26	MJG	TAL CHI

Client Sample ID: 3530-39-B06 (6-12)

Lab Sample ID: 500-198673-6

Date Collected: 05/04/21 11:40

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:39	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:01	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:28	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B06 (6-12)

Lab Sample ID: 500-198673-6

Date Collected: 05/04/21 11:40

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 15:24	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 15:01	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:39	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:32	MJG	TAL CHI

Client Sample ID: 3530-39-B02 (0-6) Lab Sample ID: 500-198673-7

Date Collected: 05/04/21 11:50 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598390	05/12/21 15:13	CMS	TAL CHI
SPLP East	Prep	3010A			598731	05/13/21 18:10	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599204	05/14/21 17:11	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:42	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:02	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:32	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B02 (0-6) Lab Sample ID: 500-198673-7

Date Collected: 05/04/21 11:50 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 15:50	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 15:22	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:42	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:33	MJG	TAL CHI

Client Sample ID: 3530-39-B02 (6-12) Lab Sample ID: 500-198673-8

Date Collected: 05/04/21 12:00 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:46	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:03	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B02 (6-12)

Lab Sample ID: 500-198673-8
Date Collected: 05/04/21 12:00
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 16:16	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 15:43	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:45	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:35	MJG	TAL CHI

Client Sample ID: 3530-39-B03 (0-6)

Lab Sample ID: 500-198673-9
Date Collected: 05/04/21 12:15
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:50	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:04	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:37	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B03 (0-6)

Lab Sample ID: 500-198673-9
Date Collected: 05/04/21 12:15
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 16:42	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 16:05	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:48	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:43	MJG	TAL CHI

Client Sample ID: 3530-39-B03 (6-12)

Lab Sample ID: 500-198673-10

Date Collected: 05/04/21 12:25

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:53	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:07	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:39	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B03 (6-12)

Lab Sample ID: 500-198673-10

Date Collected: 05/04/21 12:25

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 17:08	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 16:26	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:52	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:45	MJG	TAL CHI

Client Sample ID: 3530-39-B04 (0-6)

Lab Sample ID: 500-198673-11

Date Collected: 05/04/21 12:40

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 13:57	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:08	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:42	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B04 (0-6)

Date Collected: 05/04/21 12:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-11

Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 17:33	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 16:47	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:55	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:47	MJG	TAL CHI

Client Sample ID: 3530-39-B04 (6-12)

Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598390	05/12/21 15:13	CMS	TAL CHI
SPLP East	Prep	3010A			598731	05/13/21 18:10	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599204	05/14/21 17:34	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 14:01	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:09	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:14	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B04 (6-12)

Date Collected: 05/04/21 12:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-12

Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 17:59	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 17:09	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 16:58	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 08:48	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198673-1

Client Sample ID: 3530-39-B05 (0-6)
Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 14:04	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:10	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Client Sample ID: 3530-39-B05 (0-6)
Date Collected: 05/04/21 13:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-13
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 18:25	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 13:36	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 17:01	JJB	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598959	05/14/21 13:05	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:12	MJG	TAL CHI

Client Sample ID: 3530-39-B05 (6-12)
Date Collected: 05/04/21 13:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198673-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 14:08	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 13:11	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 10:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597945	05/10/21 17:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597870	05/10/21 14:02	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-39-B05 (6-12)
Lab Sample ID: 500-198673-14

Date Collected: 05/04/21 13:15
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597058	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597348	05/07/21 13:30	PMF	TAL CHI
Total/NA	Prep	3541			597933	05/10/21 19:35	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598004	05/11/21 13:57	AJD	TAL CHI
Total/NA	Prep	3050B			598040	05/11/21 09:21	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598869	05/13/21 17:04	JJB	TAL CHI
Total/NA	Prep	7471B			598334	05/12/21 14:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598607	05/13/21 09:14	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198673-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: ~~1 of~~ 1 of 2
Company: Environmental Design International Inc	PWSID:			Job #: 500-198673
Address: 33 West Monroe Street Suite 1825	Due Date Requested:			
City: Chicago	TAT Requested (days): Standard			
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No			
Phone: 312-345-1400	PO #: 945 033			
Email: mfischer@envdesignı com	WO #: 172-027 - WO 93			
Project Name: IDOT - 172-027 - WO 93	Lab Project #:			
Site: FAP 42 / FAP 841 (IL 127 / IL 154)				

500-198673 COC

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code:												
1	3530-39-B01 (0-5)	~~5/4~~ 5/4/21	1040	G	S			X	X	X	X	X	X		
2	-B01 (5-10)	5/4/21	1050												
3	-B01 (10-15)		1100												
4	-B06 (0-6)		1125												
5	-B06 (0-6) D		1125												
6	-B06 (6-12)		1140												
7	-B02 (0-6)		1150												
8	-B02 (6-12)		1200												
9	-B03 (0-6)		1215												
10	-B03 (6-12)		1225												
11	-B04 (0-6)		1240												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	5-5-21 1330	EDI	[signature]	5/5/21 1330	[illegible]
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 4.9 → 4.7, 3.0 → 2.8

Ver 01 16/2019

5/21/2021

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	Michael Fischer	Wright Richard		
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard Wright@Eurofinset com	State of Origin: Illinois	Page: ~~1 of 1~~ 2 of 2
Company: Environmental Design International inc	PWSID:			Job #: 500-198673
Address: 33 West Monroe Street Suite 1825	Due Date Requested			
City: Chicago	TAT Requested (days): Standard			
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No			
Phone: 312-345-1400	PO #: 945 033			
Email: mfischer@envdesigni com	WO #: 172-027 - WO 93			
Project Name: IDOT - 172-027 - WO 93	Lab Project #			
Site: FAP 42 / FAP 841 (IL 127 / IL 154)				

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
	Preservation Code														
12	3530-39-B04 (6-12)	5-4-21	1250	G	S			X	X	X	X	X	X		
13	-B05 (0-6)		1305												
14	-B05 (6-12)		1315												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	MAD	5-5-21 1330	EDI	Allison Scott	5/5/21 1330	ETH-CHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
Δ Yes Δ No		

Ver 01 16/2019

5/21/2021

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198673-1

Login Number: 198673
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198110-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 4:43:01 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Job ID: 500-198110-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198110-1

Receipt
The samples were received on 4/23/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596576 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference.

Method 6010B: The method blank for preparation batch 500-596413 and analytical batch 500-596576 contained Zinc above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: 3530-40-B01 (5-10) (500-198110-2). Elevated reporting limits (RLs) are provided.

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (0-5)

Lab Sample ID: 500-198110-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.69	J F1	1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.65	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	86	^6+	0.65	0.074	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4	F1	3.2	0.30	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	F1	0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.32	0.085	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.65	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		13	6.7	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400	F1	6.5	3.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	740		0.65	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.65	0.19	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	32	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J F1	0.65	0.38	mg/Kg	1	☼	6010B	Total/NA
Silver	0.55		0.32	0.083	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		65	9.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33	F1	0.32	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	440	B	1.3	0.57	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.051	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.67		0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.14		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	6.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-40-B01 (5-10)

Lab Sample ID: 500-198110-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	92	^6+	0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.060	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.58	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	6.6		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.9		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	500		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.43		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-40-B01 (5-10) (Continued) Lab Sample ID: 500-198110-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	45	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.061	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-40-B01 (10-15) Lab Sample ID: 500-198110-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	170	^6+	0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	0.97	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	28		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	4300		2.8	0.40	mg/Kg	5	☼	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	660		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	36	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.018	J	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198110-1	3530-40-B01 (0-5)	Solid	04/22/21 11:15	04/23/21 12:00	
500-198110-2	3530-40-B01 (5-10)	Solid	04/22/21 11:25	04/23/21 12:00	
500-198110-3	3530-40-B01 (10-15)	Solid	04/22/21 11:45	04/23/21 12:00	

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (0-5)
Lab Sample ID: 500-198110-1
Date Collected: 04/22/21 11:15
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*	*04/23/21 17:32*	*04/27/21 14:12*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*04/23/21 17:32*	*04/27/21 14:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*04/23/21 17:32*	*04/27/21 14:12*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*04/23/21 17:32*	*04/27/21 14:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (0-5)
Lab Sample ID: 500-198110-1
Date Collected: 04/22/21 11:15
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
3-Nitroaniline	<0.42	*+	0.42	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
N-Nitrosodiphenylamine	<0.21	*+	0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Carbazole	<0.21	*+	0.21	0.10	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1

Client Sample ID: 3530-40-B01 (0-5)
Date Collected: 04/22/21 11:15
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-1
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
3,3'-Dichlorobenzidine	<0.21	*+	0.21	0.059	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/02/21 14:25	05/05/21 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*73*		*31 - 166*	*05/02/21 14:25*	*05/05/21 16:50*	*1*
Phenol-d5	*69*		*30 - 153*	*05/02/21 14:25*	*05/05/21 16:50*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*05/02/21 14:25*	*05/05/21 16:50*	*1*
2-Fluorobiphenyl	*68*		*43 - 145*	*05/02/21 14:25*	*05/05/21 16:50*	*1*
2,4,6-Tribromophenol	*65*		*31 - 143*	*05/02/21 14:25*	*05/05/21 16:50*	*1*
Terphenyl-d14	*69*		*42 - 157*	*05/02/21 14:25*	*05/05/21 16:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.69**	**J F1**	1.3	0.25	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Arsenic	**9.3**		0.65	0.22	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Barium	**86**	**^6+**	0.65	0.074	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Beryllium	**0.74**		0.26	0.060	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Boron	**3.4**	**F1**	3.2	0.30	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Cadmium	**0.38**	**B**	0.13	0.023	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Calcium	**2600**	**B**	13	2.2	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Chromium	**18**	**F1**	0.65	0.32	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Cobalt	**8.6**		0.32	0.085	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Copper	**18**		0.65	0.18	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Iron	**21000**		13	6.7	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Lead	**39**		0.32	0.15	mg/Kg	☼	05/03/21 09:38	05/04/21 17:26	1
Magnesium	**2400**	**F1**	6.5	3.2	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Manganese	**740**		0.65	0.094	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Nickel	**13**		0.65	0.19	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Potassium	**1200**	**F1**	32	11	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Selenium	**0.54**	**J F1**	0.65	0.38	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Silver	**0.55**		0.32	0.083	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Sodium	**160**		65	9.6	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Thallium	<0.65		0.65	0.32	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Vanadium	**33**	**F1**	0.32	0.076	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1
Zinc	**440**	**B**	1.3	0.57	mg/Kg	☼	05/03/21 09:38	05/03/21 18:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.50**		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:56	1
Boron	**0.051**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:56	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (0-5)
Date Collected: 04/22/21 11:15
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-1
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:56	1
Iron	**0.29**	**J**	0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:56	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 12:05	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:56	1
Zinc	**0.67**		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.020	0.0065	mg/Kg	☼	05/03/21 14:30	05/04/21 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.3**		0.2	0.2	SU			04/29/21 15:26	1

Client Sample ID: 3530-40-B01 (5-10)
Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*04/23/21 17:32*	*04/27/21 14:39*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*04/23/21 17:32*	*04/27/21 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*04/23/21 17:32*	*04/27/21 14:39*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*04/23/21 17:32*	*04/27/21 14:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (5-10)
Lab Sample ID: 500-198110-2
Date Collected: 04/22/21 11:25
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
3-Nitroaniline	<0.39	*+	0.39	0.12	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
N-Nitrosodiphenylamine	<0.20	*+	0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Carbazole	<0.20	*+	0.20	0.098	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1

Client Sample ID: 3530-40-B01 (5-10)
Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
3,3'-Dichlorobenzidine	<0.20	*+	0.20	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*77*		*31 - 166*	*05/02/21 14:25*	*05/05/21 17:12*	*1*
Phenol-d5	*68*		*30 - 153*	*05/02/21 14:25*	*05/05/21 17:12*	*1*
Nitrobenzene-d5	*83*		*37 - 147*	*05/02/21 14:25*	*05/05/21 17:12*	*1*
2-Fluorobiphenyl	*64*		*43 - 145*	*05/02/21 14:25*	*05/05/21 17:12*	*1*
2,4,6-Tribromophenol	*94*		*31 - 143*	*05/02/21 14:25*	*05/05/21 17:12*	*1*
Terphenyl-d14	*65*		*42 - 157*	*05/02/21 14:25*	*05/05/21 17:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Arsenic	**3.5**		0.58	0.20	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Barium	**92**	**^6+**	0.58	0.066	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Beryllium	**0.61**		0.23	0.054	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Boron	**2.0**	**J**	2.9	0.27	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Cadmium	**0.060**	**J B**	0.12	0.021	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Calcium	**1200**	**B**	12	2.0	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Chromium	**15**		0.58	0.29	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Cobalt	**4.4**		0.58	0.15	mg/Kg	☼	05/03/21 09:38	05/04/21 17:52	2
Copper	**6.6**		0.58	0.16	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Iron	**13000**		12	6.0	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Lead	**7.9**		0.29	0.13	mg/Kg	☼	05/03/21 09:38	05/04/21 17:48	1
Magnesium	**1700**		5.8	2.9	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Manganese	**160**		0.58	0.084	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Nickel	**17**		0.58	0.17	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Potassium	**500**		29	10	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Silver	**0.43**		0.29	0.075	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Sodium	**160**		58	8.6	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Thallium	**0.40**	**J**	0.58	0.29	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Vanadium	**27**		0.29	0.069	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1
Zinc	**45**	**B**	1.2	0.51	mg/Kg	☼	05/03/21 09:38	05/03/21 18:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.49**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 19:00	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:00	1

Client Sample ID: 3530-40-B01 (5-10)
Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:00	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 19:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 19:00	1
Nickel	**0.030**		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 12:08	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:00	1
Zinc	**0.061**	**J**	0.50	0.020	mg/L		05/03/21 19:13	05/04/21 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.019	0.0065	mg/Kg	☼	05/03/21 14:30	05/04/21 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.6**		0.2	0.2	SU			04/29/21 15:31	1

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (10-15)
Lab Sample ID: 500-198110-3
Date Collected: 04/22/21 11:45
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Vinyl chloride	<0.0018		0.0018	0.00077	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*04/23/21 17:32*	*04/27/21 15:06*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*04/23/21 17:32*	*04/27/21 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*04/23/21 17:32*	*04/27/21 15:06*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*04/23/21 17:32*	*04/27/21 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (10-15)
Lab Sample ID: 500-198110-3
Date Collected: 04/22/21 11:45
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
3-Nitroaniline	<0.38	*+	0.38	0.12	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
N-Nitrosodiphenylamine	<0.19	*+	0.19	0.045	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Carbazole	<0.19	*+	0.19	0.095	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1

Client: Environmental Design International, Inc.
Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-40-B01 (10-15)
Date Collected: 04/22/21 11:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-3
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
3,3'-Dichlorobenzidine	<0.19	*+	0.19	0.053	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/02/21 14:25	05/05/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*78*		*31 - 166*	*05/02/21 14:25*	*05/05/21 17:34*	*1*
Phenol-d5	*78*		*30 - 153*	*05/02/21 14:25*	*05/05/21 17:34*	*1*
Nitrobenzene-d5	*72*		*37 - 147*	*05/02/21 14:25*	*05/05/21 17:34*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*05/02/21 14:25*	*05/05/21 17:34*	*1*
2,4,6-Tribromophenol	*45*		*31 - 143*	*05/02/21 14:25*	*05/05/21 17:34*	*1*
Terphenyl-d14	*85*		*42 - 157*	*05/02/21 14:25*	*05/05/21 17:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.59**	**J**	1.1	0.22	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Arsenic	**5.7**		0.56	0.19	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Barium	**170**	**^6+**	0.56	0.063	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Beryllium	**0.84**		0.22	0.052	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Boron	**0.97**	**J**	2.8	0.26	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Cadmium	**0.16**	**B**	0.11	0.020	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Calcium	**1200**	**B**	11	1.9	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Chromium	**12**		0.56	0.27	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Cobalt	**28**		0.28	0.073	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Copper	**10**		0.56	0.16	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Iron	**18000**		11	5.8	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Lead	**20**		0.28	0.13	mg/Kg	☼	05/03/21 09:38	05/04/21 17:55	1
Magnesium	**1400**		5.6	2.8	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Manganese	**4300**		2.8	0.40	mg/Kg	☼	05/03/21 09:38	05/04/21 17:58	5
Nickel	**30**		0.56	0.16	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Potassium	**660**		28	9.8	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Selenium	**0.41**	**J**	0.56	0.33	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Silver	<1.4		1.4	0.36	mg/Kg	☼	05/03/21 09:38	05/04/21 17:58	5
Sodium	**190**		56	8.2	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Thallium	<2.8		2.8	1.4	mg/Kg	☼	05/03/21 09:38	05/04/21 17:58	5
Vanadium	**23**		0.28	0.066	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1
Zinc	**36**	**B**	1.1	0.49	mg/Kg	☼	05/03/21 09:38	05/03/21 18:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.37**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 19:03	1
Boron	**0.056**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:03	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (10-15)
Date Collected: 04/22/21 11:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-3
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 19:03	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:03	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 19:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 19:03	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 12:18	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:03	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.019	0.0063	mg/Kg	☼	05/03/21 14:30	05/04/21 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**		0.2	0.2	SU			04/29/21 15:33	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	5035	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	5035	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	8260B	594965
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	8260B	594965
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	3541	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	3541	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	8270D	596304
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	8270D	596304
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	8270D	596304
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Metals

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	1311	
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	1311	
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 596413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	3050B	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	3050B	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	3050B	
MB 500-596413/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596413/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-198110-1 MS	3530-40-B01 (0-5)	Total/NA	Solid	3050B	
500-198110-1 MSD	3530-40-B01 (0-5)	Total/NA	Solid	3050B	
500-198110-1 DU	3530-40-B01 (0-5)	Total/NA	Solid	3050B	

Metals

Prep Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	7471B	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	7471B	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	7471B	
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	3010A	596362
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	3010A	596362
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	3010A	596362
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 596576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	6010B	596413
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	6010B	596413
MB 500-596413/1-A	Method Blank	Total/NA	Solid	6010B	596413
LCS 500-596413/2-A	Lab Control Sample	Total/NA	Solid	6010B	596413
500-198110-1 MS	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-1 MSD	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-1 DU	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	7470A	596362
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	7470A	596362
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	7471B	596427
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	7471B	596427
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	7471B	596427
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	596427
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	596427

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	6020A	596533
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	6020A	596533
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Metals

Analysis Batch: 596842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	6010B	596413
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	6010B	596413
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	6010B	596413
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	6010B	596413
MB 500-596413/1-A	Method Blank	Total/NA	Solid	6010B	596413
LCS 500-596413/2-A	Lab Control Sample	Total/NA	Solid	6010B	596413
500-198110-1 MS	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-1 MSD	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413
500-198110-1 DU	3530-40-B01 (0-5)	Total/NA	Solid	6010B	596413

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	6010B	596533
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	6010B	596533
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	7470A	596661
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	7470A	596661
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	TCLP	Solid	6010B	596533
500-198110-2	3530-40-B01 (5-10)	TCLP	Solid	6010B	596533
500-198110-3	3530-40-B01 (10-15)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	Moisture	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	Moisture	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	Moisture	

Analysis Batch: 595881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1	3530-40-B01 (0-5)	Total/NA	Solid	9045D	
500-198110-2	3530-40-B01 (5-10)	Total/NA	Solid	9045D	
500-198110-3	3530-40-B01 (10-15)	Total/NA	Solid	9045D	
LCS 500-595881/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595881/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 595881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198110-1 DU	3530-40-B01 (0-5)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198110-1	3530-40-B01 (0-5)	81	101	97	97
500-198110-2	3530-40-B01 (5-10)	84	101	98	97
500-198110-3	3530-40-B01 (10-15)	82	101	103	96
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198110-1	3530-40-B01 (0-5)	73	69	62	68	65	69
500-198110-2	3530-40-B01 (5-10)	77	68	83	64	94	65
500-198110-3	3530-40-B01 (10-15)	78	78	72	85	45	85
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596895 **Prep Batch: 596304**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596413/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596576 **Prep Batch: 596413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Boron	<5.0		5.0	0.47	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Cadmium	0.0600	J	0.20	0.036	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Calcium	4.01	J	20	3.4	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Copper	<1.0		1.0	0.28	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Iron	<20		20	10	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Magnesium	<10		10	5.0	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Potassium	<50		50	18	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Silver	<0.50		0.50	0.13	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Sodium	<100		100	15	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/03/21 09:38	05/03/21 17:56	1
Zinc	2.71		2.0	0.88	mg/Kg		05/03/21 09:38	05/03/21 17:56	1

Lab Sample ID: MB 500-596413/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596842 **Prep Batch: 596413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	0.23	mg/Kg		05/03/21 09:38	05/04/21 17:19	1

Lab Sample ID: LCS 500-596413/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596576 **Prep Batch: 596413**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	45.7		mg/Kg		91	80 - 120		

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

Lab Sample ID: LCS 500-596413/2-A
Matrix: Solid
Analysis Batch: 596576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.00		mg/Kg		90	80 - 120
Barium	200	188	^6+	mg/Kg		94	80 - 120
Beryllium	5.00	4.60		mg/Kg		92	80 - 120
Boron	100	84.8		mg/Kg		85	80 - 120
Cadmium	5.00	4.59		mg/Kg		92	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Cobalt	50.0	48.0		mg/Kg		96	80 - 120
Copper	25.0	23.8		mg/Kg		95	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Magnesium	1000	903		mg/Kg		90	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Potassium	1000	947		mg/Kg		95	80 - 120
Selenium	10.0	8.24		mg/Kg		82	80 - 120
Silver	5.00	4.43		mg/Kg		89	80 - 120
Sodium	1000	961		mg/Kg		96	80 - 120
Thallium	10.0	9.27		mg/Kg		93	80 - 120
Vanadium	50.0	47.9		mg/Kg		96	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-596413/2-A
Matrix: Solid
Analysis Batch: 596842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.41		mg/Kg		94	80 - 120

Lab Sample ID: 500-198110-1 MS
Matrix: Solid
Analysis Batch: 596576

Client Sample ID: 3530-40-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 596413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.69	J F1	29.9	9.31	F1	mg/Kg	☼	29	75 - 125
Arsenic	9.3		5.98	14.9		mg/Kg	☼	94	75 - 125
Barium	86	^6+	120	217	^6+	mg/Kg	☼	110	75 - 125
Beryllium	0.74		2.99	3.33		mg/Kg	☼	87	75 - 125
Boron	3.4	F1	59.8	40.8	F1	mg/Kg	☼	62	75 - 125
Cadmium	0.38	B	2.99	2.74		mg/Kg	☼	79	75 - 125
Calcium	2600	B	598	3550	4	mg/Kg	☼	162	75 - 125
Chromium	18	F1	12.0	33.6	F1	mg/Kg	☼	133	75 - 125
Cobalt	8.6		29.9	35.7		mg/Kg	☼	91	75 - 125
Copper	18		14.9	32.4		mg/Kg	☼	95	75 - 125
Iron	21000		59.8	26300	4	mg/Kg	☼	9581	75 - 125
Magnesium	2400	F1	598	3940	F1	mg/Kg	☼	260	75 - 125
Manganese	740		29.9	295	4	mg/Kg	☼	-1504	75 - 125
Nickel	13		29.9	44.1		mg/Kg	☼	103	75 - 125
Potassium	1200	F1	598	2190	F1	mg/Kg	☼	171	75 - 125
Selenium	0.54	J F1	5.98	4.97	F1	mg/Kg	☼	74	75 - 125

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

Lab Sample ID: 500-198110-1 MS — **Client Sample ID: 3530-40-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596576 — **Prep Batch: 596413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.55		2.99	2.90		mg/Kg	☼	78	75 - 125
Sodium	160		598	744		mg/Kg	☼	98	75 - 125
Thallium	<0.65		5.98	5.74		mg/Kg	☼	96	75 - 125
Vanadium	33	F1	29.9	66.2		mg/Kg	☼	111	75 - 125
Zinc	440	B	29.9	255	4	mg/Kg	☼	-624	75 - 125

Lab Sample ID: 500-198110-1 MS — **Client Sample ID: 3530-40-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596842 — **Prep Batch: 596413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	39		5.98	24.1	4	mg/Kg	☼	-244	75 - 125

Lab Sample ID: 500-198110-1 MSD — **Client Sample ID: 3530-40-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596576 — **Prep Batch: 596413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.69	J F1	30.5	8.23	F1	mg/Kg	☼	25	75 - 125	12	20
Arsenic	9.3		6.11	16.9		mg/Kg	☼	124	75 - 125	12	20
Barium	86	^6+	122	230	^6+	mg/Kg	☼	118	75 - 125	5	20
Beryllium	0.74		3.05	3.41		mg/Kg	☼	87	75 - 125	2	20
Boron	3.4	F1	61.1	41.2	F1	mg/Kg	☼	62	75 - 125	1	20
Cadmium	0.38	B	3.05	2.71		mg/Kg	☼	76	75 - 125	1	20
Calcium	2600	B	611	3640	4	mg/Kg	☼	173	75 - 125	3	20
Chromium	18	F1	12.2	35.2	F1	mg/Kg	☼	143	75 - 125	5	20
Cobalt	8.6		30.5	36.4		mg/Kg	☼	91	75 - 125	2	20
Copper	18		15.3	34.0		mg/Kg	☼	103	75 - 125	5	20
Iron	21000		61.1	28200	4	mg/Kg	☼	12570	75 - 125	7	20
Magnesium	2400	F1	611	4070	F1	mg/Kg	☼	276	75 - 125	3	20
Manganese	740		30.5	302	4	mg/Kg	☼	-1451	75 - 125	2	20
Nickel	13		30.5	45.0		mg/Kg	☼	104	75 - 125	2	20
Potassium	1200	F1	611	2230	F1	mg/Kg	☼	174	75 - 125	2	20
Selenium	0.54	J F1	6.11	4.89	F1	mg/Kg	☼	71	75 - 125	2	20
Silver	0.55		3.05	2.97		mg/Kg	☼	79	75 - 125	2	20
Sodium	160		611	735		mg/Kg	☼	94	75 - 125	1	20
Thallium	<0.65		6.11	6.03		mg/Kg	☼	99	75 - 125	5	20
Vanadium	33	F1	30.5	72.8	F1	mg/Kg	☼	130	75 - 125	9	20
Zinc	440	B	30.5	260	4	mg/Kg	☼	-593	75 - 125	2	20

Lab Sample ID: 500-198110-1 MSD — **Client Sample ID: 3530-40-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596842 — **Prep Batch: 596413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	39		6.11	25.1	4	mg/Kg	☼	-223	75 - 125	4	20

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

Lab Sample ID: 500-198110-1 DU
Matrix: Solid
Analysis Batch: 596576

Client Sample ID: 3530-40-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 596413

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.69	J F1	0.769	J	mg/Kg	☼	11	20
Arsenic	9.3		9.39		mg/Kg	☼	1	20
Barium	86	^6+	106	F3 ^6+	mg/Kg	☼	22	20
Beryllium	0.74		0.710		mg/Kg	☼	3	20
Boron	3.4	F1	3.26		mg/Kg	☼	5	20
Cadmium	0.38	B	0.157	F3	mg/Kg	☼	84	20
Calcium	2600	B	3010		mg/Kg	☼	15	20
Chromium	18	F1	22.5	F3	mg/Kg	☼	24	20
Cobalt	8.6		6.50	F3	mg/Kg	☼	28	20
Copper	18		19.4		mg/Kg	☼	6	20
Iron	21000		25300		mg/Kg	☼	20	20
Magnesium	2400	F1	3220	F3	mg/Kg	☼	30	20
Manganese	740		322	F3	mg/Kg	☼	79	20
Nickel	13		14.5		mg/Kg	☼	9	20
Potassium	1200	F1	1450	F3	mg/Kg	☼	22	20
Selenium	0.54	J F1	0.387	J F5	mg/Kg	☼	34	20
Silver	0.55		0.375	F5	mg/Kg	☼	38	20
Sodium	160		198	F5	mg/Kg	☼	21	20
Thallium	<0.65		0.456	J	mg/Kg	☼	NC	20
Vanadium	33	F1	37.6		mg/Kg	☼	13	20
Zinc	440	B	278	F3	mg/Kg	☼	45	20

Lab Sample ID: 500-198110-1 DU
Matrix: Solid
Analysis Batch: 596842

Client Sample ID: 3530-40-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 596413

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	39		20.0	F3	mg/Kg	☼	64	20

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

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

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Lab Sample ID: LB 500-596362/2-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596427/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 08:04	1

Lab Sample ID: LCS 500-596427/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-198110-1 DU — **Client Sample ID: 3530-40-B01 (0-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 595881

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.3		6.2		SU		0.3	

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (0-5)

Date Collected: 04/22/21 11:15
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 12:05	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:56	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:51	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:32	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595881		SMO	TAL CHI
					(Start)	04/29/21 15:26		
					(End)	04/29/21 15:28		
Total/NA	Analysis	Moisture		1	595876	04/29/21 12:11	LWN	TAL CHI

Client Sample ID: 3530-40-B01 (0-5)

Date Collected: 04/22/21 11:15
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-1

Matrix: Solid
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 14:12	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 16:50	AJD	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596576	05/03/21 18:02	EEN	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596842	05/04/21 17:26	EEN	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:52	MJG	TAL CHI

Client Sample ID: 3530-40-B01 (5-10)

Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 12:08	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 19:00	EEN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (5-10)
Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:52	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595881		SMO	TAL CHI
					(Start)	04/29/21 15:31		
					(End)	04/29/21 15:33		
Total/NA	Analysis	Moisture		1	595876	04/29/21 12:11	LWN	TAL CHI

Client Sample ID: 3530-40-B01 (5-10)
Date Collected: 04/22/21 11:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-2
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 14:39	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 17:12	AJD	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596576	05/03/21 18:25	EEN	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596842	05/04/21 17:48	EEN	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		2	596842	05/04/21 17:52	EEN	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:54	MJG	TAL CHI

Client Sample ID: 3530-40-B01 (10-15)
Date Collected: 04/22/21 11:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 12:18	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 19:03	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:53	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:36	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198110-1

Client Sample ID: 3530-40-B01 (10-15)

Date Collected: 04/22/21 11:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	595881		SMO	TAL CHI
Total/NA	Analysis	Moisture		1	595876	04/29/21 12:11	LWN	TAL CHI

Client Sample ID: 3530-40-B01 (10-15)

Date Collected: 04/22/21 11:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198110-3

Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 15:06	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 17:34	AJD	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596576	05/03/21 18:28	EEN	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		1	596842	05/04/21 17:55	EEN	TAL CHI
Total/NA	Prep	3050B			596413	05/03/21 09:38	BDE	TAL CHI
Total/NA	Analysis	6010B		5	596842	05/04/21 17:58	EEN	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:56	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198110-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc.	PWSID:			Job #: 500-198110

Address	Due Date Requested	Analysis Requested
33 West Monroe Street Suite 1825		
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesigni.com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198110 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
1 3530-40-B01 (0-5)	4-22-21	1115	G	S			X	X	X	X	X	X		
2 -B01 (5-10)		1125												
3 -B01 (10-15)		1145												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	4-23-21/1200	EDI	[signature] Scott	4/23/21 1200	EA-CHI
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.3-3.5

Ver 01/16/2019

5/6/2021

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198110-1

Login Number: 198110
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198111-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 5:05:51 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Job ID: 500-198111-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198111-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-596304 and analytical batch 500-597003 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-47-B01 (0-3) (500-198111-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

Client Sample ID: 3530-47-B01 (0-3)

Lab Sample ID: 500-198111-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0073	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	71	^6+	0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	7.2		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	860		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.5		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.91		0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Chromium	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.081		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198111-1	3530-47-B01 (0-3)	Solid	04/22/21 10:30	04/23/21 12:00	

Client Sample ID: 3530-47-B01 (0-3)
Date Collected: 04/22/21 10:30
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198111-1
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*	*04/23/21 17:32*	*04/27/21 15:33*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*04/23/21 17:32*	*04/27/21 15:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*04/23/21 17:32*	*04/27/21 15:33*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*04/23/21 17:32*	*04/27/21 15:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
1,3-Dichlorobenzene	<0.21	F1	0.21	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
1,4-Dichlorobenzene	<0.21	F1	0.21	0.052	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

Client Sample ID: 3530-47-B01 (0-3)
Date Collected: 04/22/21 10:30
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198111-1
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Hexachloroethane	<0.21	F1	0.21	0.062	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
1,2,4-Trichlorobenzene	<0.21	F1	0.21	0.044	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Hexachlorobutadiene	<0.21	F1	0.21	0.064	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
3-Nitroaniline	<0.41	*+	0.41	0.13	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4-Dinitrophenol	<0.82	F1	0.82	0.72	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
N-Nitrosodiphenylamine	<0.21	*+	0.21	0.048	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Phenanthrene	**0.0073**	**J**	0.041	0.0057	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Carbazole	<0.21	*+	0.21	0.10	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1

Client Sample ID: 3530-47-B01 (0-3)
Date Collected: 04/22/21 10:30
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198111-1
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
3,3'-Dichlorobenzidine	<0.21	*+	0.21	0.057	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
Benzo[g,h,i]perylene	<0.041	F1	0.041	0.013	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/02/21 14:25	05/06/21 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*31 - 166*	*05/02/21 14:25*	*05/06/21 03:57*	*1*
Phenol-d5	*81*		*30 - 153*	*05/02/21 14:25*	*05/06/21 03:57*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*05/02/21 14:25*	*05/06/21 03:57*	*1*
2-Fluorobiphenyl	*73*		*43 - 145*	*05/02/21 14:25*	*05/06/21 03:57*	*1*
2,4,6-Tribromophenol	*48*		*31 - 143*	*05/02/21 14:25*	*05/06/21 03:57*	*1*
Terphenyl-d14	*109*		*42 - 157*	*05/02/21 14:25*	*05/06/21 03:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.35**	**J**	1.2	0.22	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Arsenic	**7.8**		0.58	0.20	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Barium	**71**	**^6+**	0.58	0.066	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Beryllium	**0.54**		0.23	0.054	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Boron	**1.6**	**J**	2.9	0.27	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Cadmium	**0.037**	**J B**	0.12	0.021	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Calcium	**1900**	**B**	12	2.0	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Chromium	**13**		0.58	0.29	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Cobalt	**10**		0.29	0.076	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Copper	**7.2**		0.58	0.16	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Iron	**15000**		12	6.0	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Lead	**23**		0.29	0.13	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Magnesium	**1600**	**B**	5.8	2.9	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Manganese	**860**		0.58	0.084	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Nickel	**9.5**		0.58	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Potassium	**820**		29	10	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Silver	**0.34**		0.29	0.074	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Sodium	**130**		58	8.5	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Thallium	**0.54**	**J**	0.58	0.29	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Vanadium	**27**		0.29	0.068	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1
Zinc	**30**		1.2	0.51	mg/Kg	☼	05/02/21 10:26	05/03/21 13:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.16**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 19:07	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 19:07	1

Client: Environmental Design International, Inc.
Job ID: 500-198111-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-47-B01 (0-3)
Lab Sample ID: 500-198111-1
Date Collected: 04/22/21 10:30
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 19:07	1
Chromium	**0.14**		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:07	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:07	1
Iron	**0.91**		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 19:07	1
Nickel	**0.19**		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 12:22	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 19:07	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 19:07	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.068**		0.025	0.010	mg/L		05/03/21 19:19	05/04/21 12:23	1
Nickel	**0.040**		0.025	0.010	mg/L		05/03/21 19:19	05/04/21 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.081**		0.020	0.0066	mg/Kg	☼	05/03/21 14:30	05/04/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			04/28/21 20:55	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198111-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-198111-1 MS	3530-47-B01 (0-3)	Total/NA	Solid	3541	
500-198111-1 MSD	3530-47-B01 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Analysis Batch: 597003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	8270D	596304
500-198111-1 MS	3530-47-B01 (0-3)	Total/NA	Solid	8270D	596304
500-198111-1 MSD	3530-47-B01 (0-3)	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 596378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	SPLP East	Solid	1312	
LB 500-596378/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 596427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-198111-1 MS	3530-47-B01 (0-3)	Total/NA	Solid	7471B	
500-198111-1 MSD	3530-47-B01 (0-3)	Total/NA	Solid	7471B	
500-198111-1 DU	3530-47-B01 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	6010B	596298
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	3010A	596362
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	SPLP East	Solid	3010A	596378
LB 500-596378/1-B	Method Blank	SPLP East	Solid	3010A	596378
LCS 500-596534/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	7471B	596427
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	596427
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	596427
500-198111-1 MS	3530-47-B01 (0-3)	Total/NA	Solid	7471B	596427
500-198111-1 MSD	3530-47-B01 (0-3)	Total/NA	Solid	7471B	596427
500-198111-1 DU	3530-47-B01 (0-3)	Total/NA	Solid	7471B	596427

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	SPLP East	Solid	6010B	596534
LB 500-596378/1-B	Method Blank	SPLP East	Solid	6010B	596534
LCS 500-596534/2-A	Lab Control Sample	Total/NA	Solid	6010B	596534

Metals

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 595815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198111-1	3530-47-B01 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc. Job ID: 500-198111-1
Project/Site: IDOT - 172-027 - WO 93

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198111-1	3530-47-B01 (0-3)	83	101	97	97
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198111-1	3530-47-B01 (0-3)	82	81	73	73	48	109
500-198111-1 MS	3530-47-B01 (0-3)	77	84	68	71	57	87
500-198111-1 MSD	3530-47-B01 (0-3)	86	92	79	81	61	97
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198111-1

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596895 **Prep Batch: 596304**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	99		31 - 166
Phenol-d5	105		30 - 153
Nitrobenzene-d5	89		37 - 147
2-Fluorobiphenyl	87		43 - 145
2,4,6-Tribromophenol	89		31 - 143
Terphenyl-d14	89		42 - 157

Lab Sample ID: 500-198111-1 MS **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597003 **Prep Batch: 596304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.21		1.65	1.44		mg/Kg	☼	87	56 - 122
Bis(2-chloroethyl)ether	<0.21		1.65	1.25		mg/Kg	☼	75	55 - 111
1,3-Dichlorobenzene	<0.21	F1	1.65	0.932	F1	mg/Kg	☼	56	60 - 110
1,4-Dichlorobenzene	<0.21	F1	1.65	0.949	F1	mg/Kg	☼	57	61 - 110
1,2-Dichlorobenzene	<0.21		1.65	1.04		mg/Kg	☼	63	62 - 110
2-Methylphenol	<0.21		1.65	1.41		mg/Kg	☼	86	60 - 120
2,2'-oxybis[1-chloropropane]	<0.21		1.65	1.28		mg/Kg	☼	78	40 - 124
N-Nitrosodi-n-propylamine	<0.082		1.65	1.14		mg/Kg	☼	69	56 - 118
Hexachloroethane	<0.21	F1	1.65	0.857	F1	mg/Kg	☼	52	60 - 114
2-Chlorophenol	<0.21		1.65	1.28		mg/Kg	☼	78	64 - 110
Nitrobenzene	<0.041		1.65	1.16		mg/Kg	☼	70	60 - 116
Bis(2-chloroethoxy)methane	<0.21		1.65	1.20		mg/Kg	☼	73	60 - 112
1,2,4-Trichlorobenzene	<0.21	F1	1.65	1.08	F1	mg/Kg	☼	65	66 - 117
Isophorone	<0.21		1.65	1.19		mg/Kg	☼	72	55 - 110
2,4-Dimethylphenol	<0.41		1.65	1.27		mg/Kg	☼	77	60 - 110
Hexachlorobutadiene	<0.21	F1	1.65	0.869	F1	mg/Kg	☼	53	56 - 120
Naphthalene	<0.041		1.65	1.13		mg/Kg	☼	69	63 - 110
2,4-Dichlorophenol	<0.41		1.65	1.20		mg/Kg	☼	73	58 - 120
4-Chloroaniline	<0.82		1.65	1.15		mg/Kg	☼	70	30 - 150
2,4,6-Trichlorophenol	<0.41		1.65	1.16		mg/Kg	☼	70	57 - 120
2,4,5-Trichlorophenol	<0.41		1.65	1.28		mg/Kg	☼	78	50 - 120
Hexachlorocyclopentadiene	<0.82		1.65	0.506	J	mg/Kg	☼	31	10 - 133
2-Methylnaphthalene	<0.082		1.65	1.21		mg/Kg	☼	73	69 - 112
2-Nitroaniline	<0.21		1.65	1.44		mg/Kg	☼	87	57 - 124
2-Chloronaphthalene	<0.21		1.65	1.17		mg/Kg	☼	71	69 - 114
4-Chloro-3-methylphenol	<0.41		1.65	1.28		mg/Kg	☼	77	65 - 122
2,6-Dinitrotoluene	<0.21		1.65	1.33		mg/Kg	☼	81	70 - 123
2-Nitrophenol	<0.41		1.65	1.17		mg/Kg	☼	71	60 - 120
3-Nitroaniline	<0.41	*+	1.65	1.27		mg/Kg	☼	77	40 - 122
Dimethyl phthalate	<0.21		1.65	1.29		mg/Kg	☼	78	69 - 116
2,4-Dinitrophenol	<0.82	F1	3.31	<0.83	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.041		1.65	1.22		mg/Kg	☼	74	68 - 120
2,4-Dinitrotoluene	<0.21		1.65	1.38		mg/Kg	☼	83	69 - 124
Acenaphthene	<0.041		1.65	1.21		mg/Kg	☼	73	65 - 124
Dibenzofuran	<0.21		1.65	1.31		mg/Kg	☼	79	66 - 115
4-Nitrophenol	<0.82		3.31	2.26		mg/Kg	☼	68	30 - 122

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

Lab Sample ID: 500-198111-1 MS **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597003 **Prep Batch: 596304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.041		1.65	1.25		mg/Kg	☼	76	62 - 120
4-Nitroaniline	<0.41		1.65	1.03		mg/Kg	☼	63	60 - 160
4-Bromophenyl phenyl ether	<0.21		1.65	1.29		mg/Kg	☼	78	68 - 118
Hexachlorobenzene	<0.082		1.65	1.41		mg/Kg	☼	85	63 - 124
Diethyl phthalate	<0.21		1.65	1.32		mg/Kg	☼	80	58 - 120
4-Chlorophenyl phenyl ether	<0.21		1.65	1.27		mg/Kg	☼	77	62 - 119
Pentachlorophenol	<0.82		3.31	1.02		mg/Kg	☼	31	13 - 112
N-Nitrosodiphenylamine	<0.21	*+	1.65	1.32		mg/Kg	☼	80	65 - 112
4,6-Dinitro-2-methylphenol	<0.82		3.31	0.448	J	mg/Kg	☼	14	10 - 110
Phenanthrene	0.0073	J	1.65	1.36		mg/Kg	☼	82	62 - 120
Anthracene	<0.041		1.65	1.36		mg/Kg	☼	82	70 - 114
Carbazole	<0.21	*+	1.65	1.56		mg/Kg	☼	95	65 - 142
Di-n-butyl phthalate	<0.21		1.65	1.34		mg/Kg	☼	81	65 - 120
Fluoranthene	<0.041		1.65	1.42		mg/Kg	☼	86	62 - 120
Pyrene	<0.041		1.65	1.48		mg/Kg	☼	90	61 - 128
Butyl benzyl phthalate	<0.21		1.65	1.36		mg/Kg	☼	82	71 - 129
Benzo[a]anthracene	<0.041		1.65	1.27		mg/Kg	☼	77	67 - 122
Chrysene	<0.041		1.65	1.40		mg/Kg	☼	85	63 - 120
3,3'-Dichlorobenzidine	<0.21	*+	1.65	0.920		mg/Kg	☼	56	35 - 128
Bis(2-ethylhexyl) phthalate	<0.21		1.65	1.34		mg/Kg	☼	81	72 - 131
Di-n-octyl phthalate	<0.21		1.65	1.29		mg/Kg	☼	78	68 - 134
Benzo[b]fluoranthene	<0.041		1.65	1.39		mg/Kg	☼	84	69 - 129
Benzo[k]fluoranthene	<0.041		1.65	1.47		mg/Kg	☼	89	68 - 127
Benzo[a]pyrene	<0.041		1.65	1.56		mg/Kg	☼	94	65 - 133
Indeno[1,2,3-cd]pyrene	<0.041		1.65	1.15		mg/Kg	☼	69	68 - 130
Dibenz(a,h)anthracene	<0.041		1.65	1.13		mg/Kg	☼	68	64 - 131
Benzo[g,h,i]perylene	<0.041	F1	1.65	1.02	F1	mg/Kg	☼	62	72 - 131
3 & 4 Methylphenol	<0.21		1.65	1.20		mg/Kg	☼	73	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*77*		*31 - 166*
Phenol-d5	*84*		*30 - 153*
Nitrobenzene-d5	*68*		*37 - 147*
2-Fluorobiphenyl	*71*		*43 - 145*
2,4,6-Tribromophenol	*57*		*31 - 143*
Terphenyl-d14	*87*		*42 - 157*

Lab Sample ID: 500-198111-1 MSD **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597003 **Prep Batch: 596304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.21		1.59	1.46		mg/Kg	☼	92	56 - 122	1	30
Bis(2-chloroethyl)ether	<0.21		1.59	1.42		mg/Kg	☼	89	55 - 111	13	30
1,3-Dichlorobenzene	<0.21	F1	1.59	0.991		mg/Kg	☼	62	60 - 110	6	30
1,4-Dichlorobenzene	<0.21	F1	1.59	1.04		mg/Kg	☼	66	61 - 110	9	30
1,2-Dichlorobenzene	<0.21		1.59	1.09		mg/Kg	☼	69	62 - 110	5	30
2-Methylphenol	<0.21		1.59	1.53		mg/Kg	☼	96	60 - 120	8	30

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

Lab Sample ID: 500-198111-1 MSD **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597003 **Prep Batch: 596304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	<0.21		1.59	1.42		mg/Kg	☼	90	40 - 124	10	30
N-Nitrosodi-n-propylamine	<0.082		1.59	1.26		mg/Kg	☼	79	56 - 118	10	30
Hexachloroethane	<0.21	F1	1.59	0.880	F1	mg/Kg	☼	55	60 - 114	3	30
2-Chlorophenol	<0.21		1.59	1.34		mg/Kg	☼	85	64 - 110	5	30
Nitrobenzene	<0.041		1.59	1.28		mg/Kg	☼	81	60 - 116	10	30
Bis(2-chloroethoxy)methane	<0.21		1.59	1.28		mg/Kg	☼	80	60 - 112	6	30
1,2,4-Trichlorobenzene	<0.21	F1	1.59	1.22		mg/Kg	☼	77	66 - 117	12	30
Isophorone	<0.21		1.59	1.30		mg/Kg	☼	82	55 - 110	9	30
2,4-Dimethylphenol	<0.41		1.59	1.34		mg/Kg	☼	84	60 - 110	6	30
Hexachlorobutadiene	<0.21	F1	1.59	0.916		mg/Kg	☼	58	56 - 120	5	30
Naphthalene	<0.041		1.59	1.23		mg/Kg	☼	78	63 - 110	8	30
2,4-Dichlorophenol	<0.41		1.59	1.30		mg/Kg	☼	82	58 - 120	8	30
4-Chloroaniline	<0.82		1.59	1.24		mg/Kg	☼	78	30 - 150	7	30
2,4,6-Trichlorophenol	<0.41		1.59	1.22		mg/Kg	☼	77	57 - 120	5	30
2,4,5-Trichlorophenol	<0.41		1.59	1.42		mg/Kg	☼	90	50 - 120	10	30
Hexachlorocyclopentadiene	<0.82		1.59	0.538	J	mg/Kg	☼	34	10 - 133	6	30
2-Methylnaphthalene	<0.082		1.59	1.31		mg/Kg	☼	83	69 - 112	8	30
2-Nitroaniline	<0.21		1.59	1.52		mg/Kg	☼	96	57 - 124	6	30
2-Chloronaphthalene	<0.21		1.59	1.27		mg/Kg	☼	80	69 - 114	8	30
4-Chloro-3-methylphenol	<0.41		1.59	1.39		mg/Kg	☼	87	65 - 122	8	30
2,6-Dinitrotoluene	<0.21		1.59	1.45		mg/Kg	☼	92	70 - 123	9	30
2-Nitrophenol	<0.41		1.59	1.26		mg/Kg	☼	79	60 - 120	7	30
3-Nitroaniline	<0.41	*+	1.59	1.35		mg/Kg	☼	85	40 - 122	6	30
Dimethyl phthalate	<0.21		1.59	1.35		mg/Kg	☼	85	69 - 116	5	30
2,4-Dinitrophenol	<0.82	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.041		1.59	1.32		mg/Kg	☼	83	68 - 120	8	30
2,4-Dinitrotoluene	<0.21		1.59	1.48		mg/Kg	☼	94	69 - 124	7	30
Acenaphthene	<0.041		1.59	1.28		mg/Kg	☼	81	65 - 124	5	30
Dibenzofuran	<0.21		1.59	1.35		mg/Kg	☼	85	66 - 115	3	30
4-Nitrophenol	<0.82		3.17	2.42		mg/Kg	☼	76	30 - 122	7	30
Fluorene	<0.041		1.59	1.30		mg/Kg	☼	82	62 - 120	4	30
4-Nitroaniline	<0.41		1.59	1.22		mg/Kg	☼	77	60 - 160	17	30
4-Bromophenyl phenyl ether	<0.21		1.59	1.37		mg/Kg	☼	86	68 - 118	6	30
Hexachlorobenzene	<0.082		1.59	1.44		mg/Kg	☼	91	63 - 124	3	30
Diethyl phthalate	<0.21		1.59	1.41		mg/Kg	☼	89	58 - 120	6	30
4-Chlorophenyl phenyl ether	<0.21		1.59	1.36		mg/Kg	☼	86	62 - 119	6	30
Pentachlorophenol	<0.82		3.17	0.922		mg/Kg	☼	29	13 - 112	10	30
N-Nitrosodiphenylamine	<0.21	*+	1.59	1.44		mg/Kg	☼	91	65 - 112	9	30
4,6-Dinitro-2-methylphenol	<0.82		3.17	0.354	J	mg/Kg	☼	11	10 - 110	23	30
Phenanthrene	0.0073	J	1.59	1.44		mg/Kg	☼	90	62 - 120	6	30
Anthracene	<0.041		1.59	1.44		mg/Kg	☼	91	70 - 114	6	30
Carbazole	<0.21	*+	1.59	1.72		mg/Kg	☼	109	65 - 142	10	30
Di-n-butyl phthalate	<0.21		1.59	1.42		mg/Kg	☼	90	65 - 120	6	30
Fluoranthene	<0.041		1.59	1.55		mg/Kg	☼	98	62 - 120	9	30
Pyrene	<0.041		1.59	1.55		mg/Kg	☼	98	61 - 128	5	30
Butyl benzyl phthalate	<0.21		1.59	1.44		mg/Kg	☼	91	71 - 129	6	30
Benzo[a]anthracene	<0.041		1.59	1.34		mg/Kg	☼	85	67 - 122	6	30
Chrysene	<0.041		1.59	1.48		mg/Kg	☼	94	63 - 120	6	30
3,3'-Dichlorobenzidine	<0.21	*+	1.59	1.02		mg/Kg	☼	64	35 - 128	10	30

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

Lab Sample ID: 500-198111-1 MSD **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597003 **Prep Batch: 596304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	<0.21		1.59	1.42		mg/Kg	☼	90	72 - 131	6	30
Di-n-octyl phthalate	<0.21		1.59	1.39		mg/Kg	☼	88	68 - 134	8	30
Benzo[b]fluoranthene	<0.041		1.59	1.69		mg/Kg	☼	107	69 - 129	20	30
Benzo[k]fluoranthene	<0.041		1.59	1.61		mg/Kg	☼	101	68 - 127	9	30
Benzo[a]pyrene	<0.041		1.59	1.69		mg/Kg	☼	106	65 - 133	8	30
Indeno[1,2,3-cd]pyrene	<0.041		1.59	1.22		mg/Kg	☼	77	68 - 130	6	30
Dibenz(a,h)anthracene	<0.041		1.59	1.22		mg/Kg	☼	77	64 - 131	8	30
Benzo[g,h,i]perylene	<0.041	F1	1.59	1.12	F1	mg/Kg	☼	71	72 - 131	9	30
3 & 4 Methylphenol	<0.21		1.59	1.24		mg/Kg	☼	78	57 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*86*		*31 - 166*
Phenol-d5	*92*		*30 - 153*
Nitrobenzene-d5	*79*		*37 - 147*
2-Fluorobiphenyl	*81*		*43 - 145*
2,4,6-Tribromophenol	*61*		*31 - 143*
Terphenyl-d14	*97*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-596534/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596709 **Prep Batch: 596534**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium			0.200	0.193		mg/L		97	80 - 120		
Nickel			0.500	0.480		mg/L		96	80 - 120		

Lab Sample ID: LB 500-596378/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: SPLP East**
Analysis Batch: 596709 **Prep Batch: 596534**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:19	05/04/21 11:23	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:19	05/04/21 11:23	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596470 **Prep Batch: 596298**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

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

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

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

Lab Sample ID: LCS 500-596533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596873 — **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

Lab Sample ID: LCS 500-596533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596986 — **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596873 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596986 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596703 — **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596703 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Lab Sample ID: LB 500-596362/2-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596427/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 08:04	1

Lab Sample ID: LCS 500-596427/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-198111-1 MS — **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.081		0.0987	0.171		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-198111-1 MSD — **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.081		0.0987	0.189		mg/Kg	☼	110	75 - 125	10	20

Lab Sample ID: 500-198111-1 DU — **Client Sample ID: 3530-47-B01 (0-3)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.081		0.0428	F3	mg/Kg	☼	62	20

Lab Chronicle

Client: Environmental Design International, Inc. Job ID: 500-198111-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-47-B01 (0-3) Lab Sample ID: 500-198111-1

Date Collected: 04/22/21 10:30 **Matrix: Solid**
Date Received: 04/23/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			596378	04/30/21 14:30	OAJ	TAL CHI
SPLP East	Prep	3010A			596534	05/03/21 19:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	596709	05/04/21 12:23	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 12:22	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 19:07	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:55	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:55	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595815	04/29/21 08:42	LWN	TAL CHI

Client Sample ID: 3530-47-B01 (0-3) Lab Sample ID: 500-198111-1

Date Collected: 04/22/21 10:30 **Matrix: Solid**
Date Received: 04/23/21 12:00 **Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 15:33	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	597003	05/06/21 03:57	SS	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 13:39	JJB	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:30	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198111-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc	PWSID			Job #: 500-198111

Address	Due Date Requested	Analysis Requested	Preservation Codes
33 West Monroe Street Suite 1825			A HCL M Hexane
City: Chicago	TAT Requested (days): Standard		B NaOH N None
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No		C Zn Acetate O AsNaO2
Phone: 312-345-1400	PO #: 945 033		D Nitric Acid P Na2O4S
Email: mfischer@envdesignl com	WO #: 172-027 - WO 93		E NaHSO4 Q Na2SO3
Project Name: IDOT - 172-027 - WO 93	Lab Project #		F MeOH R Na2S2O3
Site: FAP 42 / FAP 841 (IL 127 / IL 154)			G Amchlor S H2SO4
			H Ascorbic Acid T TSP Dodecahydrate
500-198111 COC			I Ice U Acetone
			J DI Water V MCAA
			K EDTA W pH 4-5
			L EDA Z other (specify)
			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
3530-47-B01 (0-3)	4-22-21	1030	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	4-23-21 / 1200	EDI	[signature] Scott	4/23/21 1200	BTACHL
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		4.3 - 3.5

Ver: 01 16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198111-1

Login Number: 198111
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198105-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 4:36:02 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

Job ID: 500-198105-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198105-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-15-B01 (0-3) (500-198105-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

Client Sample ID: 3530-15-B01 (0-3)

Lab Sample ID: 500-198105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	120	^6+	0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	2.4	J	3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.024	J B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	4600	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3100	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	180		0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		62	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.81		0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.015	J	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	5.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc. Job ID: 500-198105-1
Project/Site: IDOT - 172-027 - WO 93

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198105-1	3530-15-B01 (0-3)	Solid	04/22/21 08:40	04/23/21 12:00	

Client Sample ID: 3530-15-B01 (0-3)
Date Collected: 04/22/21 08:40
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198105-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0099	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	04/23/21 17:32	04/27/21 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*04/23/21 17:32*	*04/27/21 11:57*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*04/23/21 17:32*	*04/27/21 11:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*04/23/21 17:32*	*04/27/21 11:57*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*04/23/21 17:32*	*04/27/21 11:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1

Client: Environmental Design International, Inc.
Job ID: 500-198105-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-15-B01 (0-3)
Lab Sample ID: 500-198105-1
Date Collected: 04/22/21 08:40
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
3-Nitroaniline	<0.40	*+	0.40	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
N-Nitrosodiphenylamine	<0.20	*+	0.20	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Carbazole	<0.20	*+	0.20	0.10	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1

Client Sample ID: 3530-15-B01 (0-3)
Date Collected: 04/22/21 08:40
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198105-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
3,3'-Dichlorobenzidine	<0.20	*+	0.20	0.057	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/02/21 14:25	05/05/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*31 - 166*	*05/02/21 14:25*	*05/05/21 15:24*	*1*
Phenol-d5	*74*		*30 - 153*	*05/02/21 14:25*	*05/05/21 15:24*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*05/02/21 14:25*	*05/05/21 15:24*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*05/02/21 14:25*	*05/05/21 15:24*	*1*
2,4,6-Tribromophenol	*64*		*31 - 143*	*05/02/21 14:25*	*05/05/21 15:24*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 15:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.52**	**J**	1.2	0.24	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Arsenic	**10**		0.62	0.21	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Barium	**120**	**^6+**	0.62	0.070	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Beryllium	**0.63**		0.25	0.058	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Boron	**2.4**	**J**	3.1	0.29	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Cadmium	**0.024**	**J B**	0.12	0.022	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Calcium	**4600**	**B**	12	2.1	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Chromium	**21**		0.62	0.31	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Cobalt	**5.0**		0.31	0.081	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Copper	**17**		0.62	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Iron	**24000**		12	6.4	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Lead	**15**		0.31	0.14	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Magnesium	**3100**	**B**	6.2	3.1	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Manganese	**180**		0.62	0.089	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Nickel	**14**		0.62	0.18	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Potassium	**1500**		31	11	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Selenium	**0.39**	**J**	0.62	0.36	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Silver	**0.31**		0.31	0.080	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Sodium	**170**		62	9.1	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Thallium	**0.53**	**J**	0.62	0.31	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Vanadium	**34**		0.31	0.073	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1
Zinc	**58**		1.2	0.54	mg/Kg	☼	05/02/21 10:26	05/03/21 12:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.81**		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:31	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:31	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

Client Sample ID: 3530-15-B01 (0-3)
Date Collected: 04/22/21 08:40
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198105-1
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:31	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:31	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:31	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:31	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:31	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:49	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:31	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.019	0.0065	mg/Kg	☼	05/03/21 14:30	05/04/21 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.8**		0.2	0.2	SU			04/28/21 20:42	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198105-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	8270D	596304
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 596426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	7471B	
MB 500-596426/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596426/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	6010B	596298
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	3010A	596362

Metals (Continued)

Prep Batch: 596533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	7471B	596426
MB 500-596426/12-A	Method Blank	Total/NA	Solid	7471B	596426
LCS 500-596426/13-A	Lab Control Sample	Total/NA	Solid	7471B	596426

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

General Chemistry

Analysis Batch: 595764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198105-1	3530-15-B01 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198105-1	3530-15-B01 (0-3)	82	103	100	95
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198105-1	3530-15-B01 (0-3)	76	74	68	76	64	82
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1

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

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-596362/2-B
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596661

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596426/12-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 07:03	1

Lab Sample ID: LCS 500-596426/13-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198105-1

Client Sample ID: 3530-15-B01 (0-3)

Date Collected: 04/22/21 08:40
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198105-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 11:49	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:31	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:44	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:42	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595764	04/29/21 07:00	LWN	TAL CHI

Client Sample ID: 3530-15-B01 (0-3)

Date Collected: 04/22/21 08:40
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198105-1

Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 11:57	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 15:24	AJD	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 12:27	JJB	TAL CHI
Total/NA	Prep	7471B			596426	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:01	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198105-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc	PWSID:			Job #: 500-198105

Address: 33 West Monroe Street Suite 1825	Due Date Requested:		
City: Chicago	TAT Requested (days): Standard		
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No		
Phone: 312-345-1400	PO #: 945 033		
Email: mfischer@envdesigni.com	WO #: 172-027 - WO 93		
Project Name: IDOT - 172-027 - WO 93	Lab Project #:		
Site: FAP 42 / FAP 841 (IL 127 / IL 154)			

500-198105 COC

Analysis Requested

Preservation Codes

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Z other (specify)		

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
1 3530-15-B01 (0-3)	4-22-21	0840	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: MAA	Date/Time: 4-23-21 1200	Company: EDI	Received by: Shin Scott	Date/Time: 4/23/21 1200	Company: ETA CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.3→3.5

Ver 01 16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198105-1

Login Number: 198105 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198668-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/21/2021 4:26:53 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc. Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198668-1

Receipt
The samples were received on 5/5/2021 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.3º C, 4.7º C and 5.7º C.

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

GC/MS Semi VOA
Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-598423 and analytical batch 500-598506 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

Method 8270D: The following samples contained one acid surrogate outside acceptance limits:3530-16-B05 (0-6) (500-198668-15). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: 3530-16-B10 (6-12) (500-198668-4), 3530-16-B09 (0-6) (500-198668-7), 3530-16-B07 (0-6) (500-198668-11), 3530-16-B07 (6-12) (500-198668-12), 3530-16-B06 (0-6) (500-198668-13), 3530-16-B05 (0-6) (500-198668-15), 3530-16-B05 (6-12) (500-198668-16), 3530-16-B04 (0-6) (500-198668-17) and 3530-16-B03 (6-12) (500-198668-20). Elevated reporting limits (RLs) are provided.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-598824 and 500-599094 and analytical batch 500-599506 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry
Method 9045D:

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (0-6)

Lab Sample ID: 500-198668-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.93	J F1	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5	F1	0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	71	F1	0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8	F1	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	F1 B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000	F2 B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13	F1	0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8000	F2	5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	330	F2	0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1 B	27	9.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.78		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	77	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	54	F1	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.88		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.13	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B01 (6-12)

Lab Sample ID: 500-198668-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.017	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0078	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.038	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0068	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.076		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.083		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.047		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.063		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.039		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.52	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B01 (6-12) (Continued) Lab Sample ID: 500-198668-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.1	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	7100	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	9.0		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	180		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	690	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.44		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	62	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.061	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0081	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B10 (0-6) Lab Sample ID: 500-198668-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.033	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0070	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	300		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.026	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1300		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	960		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	850	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	37	J B	58	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B10 (0-6) (Continued) Lab Sample ID: 500-198668-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	28		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	220		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.47		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.018		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.31	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.031		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.49		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B10 (6-12) Lab Sample ID: 500-198668-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.9	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.58	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	620	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.50		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	99	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.25	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.024		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B02 (0-6) Lab Sample ID: 500-198668-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.89	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.86		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	2.1	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B02 (0-6) (Continued) Lab Sample ID: 500-198668-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.19	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	6400	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	600		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	760	B	28	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.6		0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	86	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.88		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.051	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.040		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B02 (6-12) Lab Sample ID: 500-198668-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.040	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	8.5		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	570	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.48		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.55	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Environmental Design International, Inc. Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B02 (6-12) (Continued) Lab Sample ID: 500-198668-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.55		0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.059		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	6.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B09 (0-6) Lab Sample ID: 500-198668-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	2.0	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.0		0.61	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	7.7		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	200		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.2		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	930	B	30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	50	J B	61	9.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.12	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.0095		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.026		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B09 (6-12) Lab Sample ID: 500-198668-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.62	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.0		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	0.59	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	8.0		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B09 (6-12) (Continued)

Lab Sample ID: 500-198668-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	15000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	120		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	530	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	B	58	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.039	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.016	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	5.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B08 (0-6)

Lab Sample ID: 500-198668-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	3.1		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	9.4		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	1600		3.0	0.43	mg/Kg	5	☼	6010B	Total/NA
Nickel	12		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	990	B	30	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Sodium	41	J B	59	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.9	J	3.0	1.5	mg/Kg	5	☼	6010B	Total/NA
Vanadium	32		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.051	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.057		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	5.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B08 (6-12)

Lab Sample ID: 500-198668-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B08 (6-12) (Continued)

Lab Sample ID: 500-198668-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.68		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	0.71	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	9.7		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	660	B	28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	90	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.37	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.026	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.016	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	5.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B07 (0-6)

Lab Sample ID: 500-198668-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	57		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	3.0		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1400	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.9		0.58	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	14		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	63	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	44		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B07 (0-6) (Continued) Lab Sample ID: 500-198668-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.041	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.042		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	5.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B07 (6-12) Lab Sample ID: 500-198668-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0023	J	0.0046	0.0018	mg/Kg	1	☼	8260B	Total/NA
Arsenic	3.4		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	1100	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.56	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	7.0		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	8.1		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	530	B	28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.48		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	96	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.096	J *+	0.50	0.020	mg/L	1		6010B	TCLP
pH	5.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B06 (0-6) Lab Sample ID: 500-198668-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.56	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	2.4	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.61	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	8.6		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	960	B	30	11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B06 (0-6) (Continued) Lab Sample ID: 500-198668-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.32		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	46	J B	61	9.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.83		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.042	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.062		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B06 (6-12) Lab Sample ID: 500-198668-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	0.78	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	1100	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	8.6		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	680		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	660	B	28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.28		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	80	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.031	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.027		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B05 (0-6) Lab Sample ID: 500-198668-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.049		0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.056	J	0.084	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.035	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.46		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.47		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.47		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B05 (0-6) (Continued) Lab Sample ID: 500-198668-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.64		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.28		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.58		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.26		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.078		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.27		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	1.2		1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.47	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.59	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	18		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	11		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	46	J B	59	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.59	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	42		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	96		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.50		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.082	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.16		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B05 (6-12) Lab Sample ID: 500-198668-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	0.00089	J	0.0018	0.00051	mg/Kg	1	☼	8260B	Total/NA
Tetrachloroethene	0.00076	J	0.0018	0.00062	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.31	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	1.3	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.020	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	1000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.4		0.56	0.15	mg/Kg	2	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B05 (6-12) (Continued)

Lab Sample ID: 500-198668-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.6		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	7.7		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1600		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	850	B	28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.40		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	41	J B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.063		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	6.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B04 (0-6)

Lab Sample ID: 500-198668-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.80	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	2100	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.58	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	16		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	50	J B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	37		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.76		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.073	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	5.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (6-12) — Lab Sample ID: 500-198668-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.025	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	1100	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	6.4		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	8.1		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1500		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	730	B	29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	51	J B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.59		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.044	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.012	J	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	5.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B03 (0-6) — Lab Sample ID: 500-198668-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.94	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	140		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	1.1	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1400	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	160		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	B	30	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	160	B	60	8.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.096	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-16-B03 (0-6) (Continued) Lab Sample ID: 500-198668-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.37	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J *+	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.022		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	4.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-16-B03 (6-12) Lab Sample ID: 500-198668-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J	2.3	0.44	mg/Kg	2	☼	6010B	Total/NA
Arsenic	4.2		1.1	0.39	mg/Kg	2	☼	6010B	Total/NA
Barium	300		1.1	0.13	mg/Kg	2	☼	6010B	Total/NA
Beryllium	0.89		0.46	0.11	mg/Kg	2	☼	6010B	Total/NA
Boron	0.63	J	5.7	0.53	mg/Kg	2	☼	6010B	Total/NA
Calcium	990	B	23	3.9	mg/Kg	2	☼	6010B	Total/NA
Chromium	16		1.1	0.56	mg/Kg	2	☼	6010B	Total/NA
Cobalt	10		0.28	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	8.2		1.1	0.32	mg/Kg	2	☼	6010B	Total/NA
Iron	13000		23	12	mg/Kg	2	☼	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700		11	5.6	mg/Kg	2	☼	6010B	Total/NA
Manganese	360		1.1	0.17	mg/Kg	2	☼	6010B	Total/NA
Nickel	20		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	540	B	57	20	mg/Kg	2	☼	6010B	Total/NA
Silver	0.58		0.57	0.15	mg/Kg	2	☼	6010B	Total/NA
Sodium	140	B	110	17	mg/Kg	2	☼	6010B	Total/NA
Thallium	0.36	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.57	0.13	mg/Kg	2	☼	6010B	Total/NA
Zinc	47		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.029	J *+	0.50	0.020	mg/L	1		6010B	TCLP
pH	5.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198668-1	3530-16-B01 (0-6)	Solid	05/04/21 13:45	05/05/21 13:30	
500-198668-2	3530-16-B01 (6-12)	Solid	05/04/21 13:55	05/05/21 13:30	
500-198668-3	3530-16-B10 (0-6)	Solid	05/04/21 14:05	05/05/21 13:30	
500-198668-4	3530-16-B10 (6-12)	Solid	05/04/21 14:10	05/05/21 13:30	
500-198668-5	3530-16-B02 (0-6)	Solid	05/04/21 14:20	05/05/21 13:30	
500-198668-6	3530-16-B02 (6-12)	Solid	05/04/21 14:30	05/05/21 13:30	
500-198668-7	3530-16-B09 (0-6)	Solid	05/04/21 14:45	05/05/21 13:30	
500-198668-8	3530-16-B09 (6-12)	Solid	05/04/21 14:55	05/05/21 13:30	
500-198668-9	3530-16-B08 (0-6)	Solid	05/04/21 15:10	05/05/21 13:30	
500-198668-10	3530-16-B08 (6-12)	Solid	05/04/21 15:20	05/05/21 13:30	
500-198668-11	3530-16-B07 (0-6)	Solid	05/04/21 15:30	05/05/21 13:30	
500-198668-12	3530-16-B07 (6-12)	Solid	05/04/21 15:40	05/05/21 13:30	
500-198668-13	3530-16-B06 (0-6)	Solid	05/04/21 15:50	05/05/21 13:30	
500-198668-14	3530-16-B06 (6-12)	Solid	05/04/21 16:00	05/05/21 13:30	
500-198668-15	3530-16-B05 (0-6)	Solid	05/04/21 16:05	05/05/21 13:30	
500-198668-16	3530-16-B05 (6-12)	Solid	05/04/21 16:15	05/05/21 13:30	
500-198668-17	3530-16-B04 (0-6)	Solid	05/04/21 16:20	05/05/21 13:30	
500-198668-18	3530-16-B04 (6-12)	Solid	05/04/21 16:30	05/05/21 13:30	
500-198668-19	3530-16-B03 (0-6)	Solid	05/04/21 16:40	05/05/21 13:30	
500-198668-20	3530-16-B03 (6-12)	Solid	05/04/21 16:50	05/05/21 13:30	

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B01 (0-6)
Lab Sample ID: 500-198668-1
Date Collected: 05/04/21 13:45
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*05/05/21 17:41*	*05/06/21 12:21*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/06/21 12:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/05/21 17:41*	*05/06/21 12:21*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 12:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (0-6)
Date Collected: 05/04/21 13:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-1
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4-Dinitrophenol	<0.75	*-	0.75	0.65	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1

Client Sample ID: 3530-16-B01 (0-6)
Date Collected: 05/04/21 13:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-1
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/12/21 17:38*	*05/13/21 12:37*	*1*
Phenol-d5	*90*		*30 - 153*	*05/12/21 17:38*	*05/13/21 12:37*	*1*
Nitrobenzene-d5	*90*		*37 - 147*	*05/12/21 17:38*	*05/13/21 12:37*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*05/12/21 17:38*	*05/13/21 12:37*	*1*
2,4,6-Tribromophenol	*64*		*31 - 143*	*05/12/21 17:38*	*05/13/21 12:37*	*1*
Terphenyl-d14	*116*		*42 - 157*	*05/12/21 17:38*	*05/13/21 12:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.93**	**J F1**	1.1	0.21	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Arsenic	**4.5**	**F1**	0.54	0.18	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Barium	**71**	**F1**	0.54	0.062	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Beryllium	**0.72**		0.22	0.050	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Boron	**2.8**	**F1**	2.7	0.25	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Cadmium	**0.17**	**F1 B**	0.11	0.019	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Calcium	**26000**	**F2 B**	11	1.8	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Chromium	**14**		0.54	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Cobalt	**9.1**		0.27	0.071	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Copper	**12**		0.54	0.15	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Iron	**19000**		11	5.6	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Lead	**13**	**F1**	0.27	0.12	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Magnesium	**8000**	**F2**	5.4	2.7	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Manganese	**330**	**F2**	0.54	0.078	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Nickel	**20**		0.54	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Potassium	**1200**	**F1 B**	27	9.6	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Selenium	**0.78**		0.54	0.32	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Silver	**0.31**		0.27	0.070	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Sodium	**77**	**B**	54	8.0	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Vanadium	**20**		0.27	0.064	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1
Zinc	**54**	**F1**	1.1	0.47	mg/Kg	☼	05/10/21 09:12	05/10/21 16:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.88**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:01	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:01	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (0-6)
Date Collected: 05/04/21 13:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-1
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0037**	**J**	0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:01	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:01	1
Lead	**0.013**		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:01	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:01	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:01	1
Zinc	**0.13**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.016**		0.0075	0.0075	mg/L		05/16/21 07:39	05/17/21 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0061	mg/Kg	☼	05/13/21 13:40	05/14/21 06:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			05/07/21 19:32	1

Client Sample ID: 3530-16-B01 (6-12)
Date Collected: 05/04/21 13:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-2
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/05/21 17:41*	*05/06/21 12:47*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/05/21 17:41*	*05/06/21 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/05/21 17:41*	*05/06/21 12:47*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 12:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (6-12)
Date Collected: 05/04/21 13:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-2
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Naphthalene	**0.014**	**J**	0.039	0.0061	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Methylnaphthalene	**0.017**	**J**	0.080	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4-Dinitrophenol	<0.80	*-	0.80	0.70	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Acenaphthylene	**0.0078**	**J**	0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Phenanthrene	**0.038**	**J**	0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Anthracene	**0.0068**	**J**	0.039	0.0066	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Fluoranthene	**0.076**		0.039	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Pyrene	**0.083**		0.039	0.0079	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Benzo[a]anthracene	**0.047**		0.039	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1

Client Sample ID: 3530-16-B01 (6-12)
Date Collected: 05/04/21 13:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-2
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.057**		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Benzo[b]fluoranthene	**0.063**		0.039	0.0086	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Benzo[k]fluoranthene	**0.020**	**J**	0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Benzo[a]pyrene	**0.039**		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Indeno[1,2,3-cd]pyrene	**0.018**	**J**	0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
Benzo[g,h,i]perylene	**0.025**	**J**	0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*84*		*31 - 166*	*05/12/21 17:38*	*05/13/21 16:10*	*1*
Phenol-d5	*85*		*30 - 153*	*05/12/21 17:38*	*05/13/21 16:10*	*1*
Nitrobenzene-d5	*85*		*37 - 147*	*05/12/21 17:38*	*05/13/21 16:10*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*05/12/21 17:38*	*05/13/21 16:10*	*1*
2,4,6-Tribromophenol	*31*		*31 - 143*	*05/12/21 17:38*	*05/13/21 16:10*	*1*
Terphenyl-d14	*109*		*42 - 157*	*05/12/21 17:38*	*05/13/21 16:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.52**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Arsenic	**4.1**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Barium	**44**		0.58	0.067	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Beryllium	**0.68**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Boron	**2.1**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Cadmium	**0.13**	**B**	0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Calcium	**7100**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Cobalt	**4.5**		0.29	0.076	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Copper	**9.0**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Iron	**13000**		12	6.1	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Lead	**20**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Magnesium	**2200**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Manganese	**180**		0.58	0.085	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Nickel	**19**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Potassium	**690**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Selenium	**0.41**	**J**	0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Silver	**0.44**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Sodium	**62**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Vanadium	**27**		0.29	0.069	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1
Zinc	**49**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.60**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:04	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:04	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B01 (6-12)
Lab Sample ID: 500-198668-2
Date Collected: 05/04/21 13:55
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0024**	**J**	0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:04	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:04	1
Iron	**0.21**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:04	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:04	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:04	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:04	1
Zinc	**0.061**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0081**	**J**	0.018	0.0059	mg/Kg	☼	05/13/21 13:40	05/14/21 06:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			05/07/21 19:34	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B10 (0-6)

Date Collected: 05/04/21 14:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-3

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0085	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*05/05/21 17:41*	*05/06/21 13:13*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/05/21 17:41*	*05/06/21 13:13*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 13:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1

Client Sample ID: 3530-16-B10 (0-6) **Lab Sample ID: 500-198668-3**
Date Collected: 05/04/21 14:05 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Phenanthrene	**0.033**	**J**	0.039	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Benzo[a]anthracene	**0.0070**	**J**	0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1

Client Sample ID: 3530-16-B10 (0-6)
Date Collected: 05/04/21 14:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*92*		*31 - 166*	*05/12/21 17:38*	*05/13/21 12:59*	*1*
Phenol-d5	*94*		*30 - 153*	*05/12/21 17:38*	*05/13/21 12:59*	*1*
Nitrobenzene-d5	*88*		*37 - 147*	*05/12/21 17:38*	*05/13/21 12:59*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*05/12/21 17:38*	*05/13/21 12:59*	*1*
2,4,6-Tribromophenol	*70*		*31 - 143*	*05/12/21 17:38*	*05/13/21 12:59*	*1*
Terphenyl-d14	*126*		*42 - 157*	*05/12/21 17:38*	*05/13/21 12:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.62**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Arsenic	**7.2**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Barium	**300**		0.58	0.067	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Beryllium	**0.81**		0.23	0.055	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Boron	**3.7**		2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Cadmium	**0.026**	**J B**	0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Calcium	**1900**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Chromium	**13**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Cobalt	**12**		0.29	0.077	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Copper	**18**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Iron	**16000**		12	6.1	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Lead	**130**		0.29	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Magnesium	**1300**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Manganese	**960**		0.58	0.085	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Nickel	**18**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Potassium	**850**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Selenium	**0.67**		0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Silver	**0.41**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Sodium	**37**	**J B**	58	8.7	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Thallium	**1.5**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Vanadium	**28**		0.29	0.069	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1
Zinc	**220**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.52**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:08	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:08	1

Client Sample ID: 3530-16-B10 (0-6) **Lab Sample ID: 500-198668-3**
Date Collected: 05/04/21 14:05 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:08	1
Iron	**0.47**		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:08	1
Lead	**0.018**		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:08	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:08	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:08	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:08	1
Zinc	**0.31**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:08	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.031**		0.0075	0.0075	mg/L		05/16/21 07:39	05/17/21 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.49**		0.020	0.0067	mg/Kg	☼	05/13/21 13:40	05/14/21 06:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.6**		0.2	0.2	SU			05/07/21 19:37	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B10 (6-12)
Date Collected: 05/04/21 14:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-4
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*05/05/21 17:41*	*05/06/21 13:39*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*05/05/21 17:41*	*05/06/21 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*	*05/05/21 17:41*	*05/06/21 13:39*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 13:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B10 (6-12)
Lab Sample ID: 500-198668-4
Date Collected: 05/04/21 14:10
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Phenanthrene	**0.010**	**J**	0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1

Client Sample ID: 3530-16-B10 (6-12)
Date Collected: 05/04/21 14:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-4
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*74*		*31 - 166*	*05/12/21 17:38*	*05/13/21 13:20*	*1*
Phenol-d5	*78*		*30 - 153*	*05/12/21 17:38*	*05/13/21 13:20*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*05/12/21 17:38*	*05/13/21 13:20*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*05/12/21 17:38*	*05/13/21 13:20*	*1*
2,4,6-Tribromophenol	*61*		*31 - 143*	*05/12/21 17:38*	*05/13/21 13:20*	*1*
Terphenyl-d14	*108*		*42 - 157*	*05/12/21 17:38*	*05/13/21 13:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Arsenic	**3.4**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Barium	**69**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Beryllium	**0.64**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Boron	**1.9**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Calcium	**1200**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Cobalt	**6.6**		0.58	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 15:54	2
Copper	**19**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Iron	**12000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Lead	**34**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Magnesium	**1700**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Manganese	**300**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Nickel	**15**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Potassium	**620**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Silver	**0.50**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Sodium	**99**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Thallium	**0.48**	**J**	0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1
Zinc	**63**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.46**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:19	1
Boron	**0.16**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:19	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B10 (6-12)

Date Collected: 05/04/21 14:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-4

Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:19	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:19	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:19	1
Iron	**0.21**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:19	1
Lead	**0.019**		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:19	1
Nickel	**0.032**		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:19	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:19	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:19	1
Zinc	**0.25**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:19	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.028**		0.0075	0.0075	mg/L		05/16/21 07:39	05/17/21 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.020	0.0066	mg/Kg	☼	05/13/21 13:40	05/14/21 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.0**		0.2	0.2	SU			05/07/21 19:42	1

Client Sample ID: 3530-16-B02 (0-6)
Date Collected: 05/04/21 14:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-5
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:04*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:04*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B02 (0-6)
Date Collected: 05/04/21 14:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-5
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,2'-oxybis[1-chloropropane]	<0.19	F1	0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4-Dinitrophenol	<0.77	F1 *-	0.77	0.67	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1

Client Sample ID: 3530-16-B02 (0-6)
Date Collected: 05/04/21 14:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-5
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*97*		*31 - 166*	*05/12/21 17:38*	*05/13/21 13:41*	*1*
Phenol-d5	*92*		*30 - 153*	*05/12/21 17:38*	*05/13/21 13:41*	*1*
Nitrobenzene-d5	*93*		*37 - 147*	*05/12/21 17:38*	*05/13/21 13:41*	*1*
2-Fluorobiphenyl	*109*		*43 - 145*	*05/12/21 17:38*	*05/13/21 13:41*	*1*
2,4,6-Tribromophenol	*68*		*31 - 143*	*05/12/21 17:38*	*05/13/21 13:41*	*1*
Terphenyl-d14	*121*		*42 - 157*	*05/12/21 17:38*	*05/13/21 13:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.89**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Arsenic	**11**		0.57	0.19	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Barium	**86**		0.57	0.065	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Beryllium	**0.86**		0.23	0.053	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Boron	**2.1**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Cadmium	**0.19**	**B**	0.11	0.020	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Calcium	**6400**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Chromium	**17**		0.57	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Cobalt	**8.3**		0.28	0.074	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Copper	**13**		0.57	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Iron	**24000**		11	5.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Lead	**16**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Magnesium	**2000**		5.7	2.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Manganese	**600**		0.57	0.082	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Nickel	**19**		0.57	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Potassium	**760**	**B**	28	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Selenium	**1.6**		0.57	0.33	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Silver	**0.26**	**J**	0.28	0.073	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Sodium	**86**	**B**	57	8.4	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Thallium	**0.88**		0.57	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Vanadium	**33**		0.28	0.067	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	05/10/21 09:12	05/10/21 17:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.38**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:22	1
Boron	**0.17**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:22	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B02 (0-6)
Lab Sample ID: 500-198668-5
Date Collected: 05/04/21 14:20
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0034**	**J**	0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:22	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:22	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:22	1
Iron	**0.22**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:22	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:22	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:22	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:22	1
Zinc	**0.051**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.019	0.0063	mg/Kg	☼	05/13/21 13:40	05/14/21 06:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			05/07/21 19:44	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B02 (6-12)
Date Collected: 05/04/21 14:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-6
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:30*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B02 (6-12)
Date Collected: 05/04/21 14:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-6
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1

Client Sample ID: 3530-16-B02 (6-12)
Date Collected: 05/04/21 14:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-6
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*89*		*31 - 166*	*05/12/21 17:38*	*05/13/21 14:02*	*1*
Phenol-d5	*87*		*30 - 153*	*05/12/21 17:38*	*05/13/21 14:02*	*1*
Nitrobenzene-d5	*87*		*37 - 147*	*05/12/21 17:38*	*05/13/21 14:02*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*05/12/21 17:38*	*05/13/21 14:02*	*1*
2,4,6-Tribromophenol	*51*		*31 - 143*	*05/12/21 17:38*	*05/13/21 14:02*	*1*
Terphenyl-d14	*118*		*42 - 157*	*05/12/21 17:38*	*05/13/21 14:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.42**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Arsenic	**4.5**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Barium	**73**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Beryllium	**0.76**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Boron	**1.1**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Cadmium	**0.040**	**J B**	0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Calcium	**1200**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Cobalt	**5.6**		0.29	0.076	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Copper	**8.5**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Iron	**14000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Lead	**11**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Magnesium	**1700**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Manganese	**260**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Nickel	**26**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Potassium	**570**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Selenium	**0.45**	**J**	0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Silver	**0.48**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Sodium	**140**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Thallium	**0.55**	**J**	0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Vanadium	**31**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1
Zinc	**34**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.17**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:26	1
Boron	**0.13**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:26	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B02 (6-12)

Date Collected: 05/04/21 14:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-6

Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:26	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:26	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:26	1
Iron	**0.55**		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:26	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:26	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:26	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:26	1
Zinc	**0.032**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.019	0.0064	mg/Kg	☼	05/13/21 13:40	05/14/21 06:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.5**		0.2	0.2	SU			05/07/21 19:50	1

Client Sample ID: 3530-16-B09 (0-6)
Date Collected: 05/04/21 14:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*	*05/05/21 17:41*	*05/06/21 14:56*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 14:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*05/05/21 17:41*	*05/06/21 14:56*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 14:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (0-6)
Date Collected: 05/04/21 14:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1

Client Sample ID: 3530-16-B09 (0-6)
Date Collected: 05/04/21 14:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*31 - 166*	*05/12/21 17:38*	*05/13/21 14:45*	*1*
Phenol-d5	*81*		*30 - 153*	*05/12/21 17:38*	*05/13/21 14:45*	*1*
Nitrobenzene-d5	*80*		*37 - 147*	*05/12/21 17:38*	*05/13/21 14:45*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*05/12/21 17:38*	*05/13/21 14:45*	*1*
2,4,6-Tribromophenol	*59*		*31 - 143*	*05/12/21 17:38*	*05/13/21 14:45*	*1*
Terphenyl-d14	*107*		*42 - 157*	*05/12/21 17:38*	*05/13/21 14:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.32**	**J**	1.2	0.24	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Arsenic	**7.4**		0.61	0.21	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Barium	**48**		0.61	0.069	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Beryllium	**0.56**		0.24	0.057	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Boron	**2.0**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Calcium	**1200**	**B**	12	2.1	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Chromium	**15**		0.61	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Cobalt	**4.0**		0.61	0.16	mg/Kg	☼	05/10/21 09:12	05/11/21 15:57	2
Copper	**7.7**		0.61	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Iron	**16000**		12	6.3	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Lead	**12**		0.30	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Magnesium	**1800**		6.1	3.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Manganese	**200**		0.61	0.088	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Nickel	**9.2**		0.61	0.18	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Potassium	**930**	**B**	30	11	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Selenium	**0.46**	**J**	0.61	0.36	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Silver	**0.36**		0.30	0.078	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Sodium	**50**	**J B**	61	9.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Thallium	**0.41**	**J**	0.61	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Vanadium	**32**		0.30	0.072	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1
Zinc	**36**		1.2	0.53	mg/Kg	☼	05/10/21 09:12	05/10/21 17:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.25**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:30	1
Boron	**0.20**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:30	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (0-6)
Date Collected: 05/04/21 14:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:30	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:30	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:30	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:30	1
Lead	**0.015**		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:30	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:30	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:30	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:30	1
Zinc	**0.12**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:30	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0095**		0.0075	0.0075	mg/L		05/16/21 07:39	05/17/21 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.020	0.0066	mg/Kg	☼	05/13/21 13:40	05/14/21 07:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.6**		0.2	0.2	SU			05/07/21 19:52	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (6-12)

Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*05/05/21 17:41*	*05/06/21 15:22*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*05/05/21 17:41*	*05/06/21 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/05/21 17:41*	*05/06/21 15:22*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 15:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (6-12)
Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4-Dinitrophenol	<0.77	*-	0.77	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1

Client Sample ID: 3530-16-B09 (6-12)
Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*87*		*31 - 166*	*05/12/21 17:38*	*05/13/21 15:06*	*1*
Phenol-d5	*84*		*30 - 153*	*05/12/21 17:38*	*05/13/21 15:06*	*1*
Nitrobenzene-d5	*84*		*37 - 147*	*05/12/21 17:38*	*05/13/21 15:06*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*05/12/21 17:38*	*05/13/21 15:06*	*1*
2,4,6-Tribromophenol	*60*		*31 - 143*	*05/12/21 17:38*	*05/13/21 15:06*	*1*
Terphenyl-d14	*116*		*42 - 157*	*05/12/21 17:38*	*05/13/21 15:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.62**	**J**	1.2	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Arsenic	**4.0**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Barium	**69**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Beryllium	**0.71**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Boron	**0.59**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Calcium	**1000**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Chromium	**17**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Cobalt	**7.0**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Copper	**8.0**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Iron	**15000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Lead	**8.6**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Magnesium	**1800**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Manganese	**120**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Nickel	**13**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Potassium	**530**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Silver	**0.41**		0.29	0.074	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Sodium	**140**	**B**	58	8.5	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Vanadium	**27**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1
Zinc	**35**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.56**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:33	1
Boron	**0.20**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:33	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (6-12)

Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:33	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:33	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:33	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:33	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:33	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:33	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:33	1
Zinc	**0.039**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.018	0.0061	mg/Kg	☼	05/13/21 13:40	05/14/21 07:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.4**		0.2	0.2	SU			05/07/21 19:54	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B08 (0-6)
Lab Sample ID: 500-198668-9
Date Collected: 05/04/21 15:10
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0085	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*05/05/21 17:41*	*05/06/21 15:48*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/05/21 17:41*	*05/06/21 15:48*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 15:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (0-6)
Date Collected: 05/04/21 15:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-9
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4-Dinitrophenol	<0.80	*-	0.80	0.69	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1

Client Sample ID: 3530-16-B08 (0-6)
Date Collected: 05/04/21 15:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-9
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*81*		*31 - 166*	*05/12/21 17:38*	*05/13/21 17:34*	*1*
Phenol-d5	*78*		*30 - 153*	*05/12/21 17:38*	*05/13/21 17:34*	*1*
Nitrobenzene-d5	*82*		*37 - 147*	*05/12/21 17:38*	*05/13/21 17:34*	*1*
2-Fluorobiphenyl	*127*		*43 - 145*	*05/12/21 17:38*	*05/13/21 17:34*	*1*
2,4,6-Tribromophenol	*66*		*31 - 143*	*05/12/21 17:38*	*05/13/21 17:34*	*1*
Terphenyl-d14	*124*		*42 - 157*	*05/12/21 17:38*	*05/13/21 17:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.55**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Arsenic	**7.4**		0.59	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Barium	**130**		0.59	0.067	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Beryllium	**0.64**		0.24	0.055	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Boron	**3.1**		3.0	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Calcium	**1900**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Chromium	**15**		0.59	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Cobalt	**12**		0.30	0.078	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Copper	**9.4**		0.59	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Iron	**16000**		12	6.2	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Lead	**23**		0.30	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Magnesium	**1700**		5.9	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Manganese	**1600**		3.0	0.43	mg/Kg	☼	05/10/21 09:12	05/11/21 16:00	5
Nickel	**12**		0.59	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Potassium	**990**	**B**	30	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Selenium	**0.64**		0.59	0.35	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Silver	<1.5		1.5	0.38	mg/Kg	☼	05/10/21 09:12	05/11/21 16:00	5
Sodium	**41**	**J B**	59	8.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Thallium	**2.9**	**J**	3.0	1.5	mg/Kg	☼	05/10/21 09:12	05/11/21 16:00	5
Vanadium	**32**		0.30	0.070	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1
Zinc	**42**		1.2	0.52	mg/Kg	☼	05/10/21 09:12	05/10/21 17:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.45**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:37	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:37	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (0-6)
Date Collected: 05/04/21 15:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-9
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:37	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:37	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:37	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:37	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:37	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:37	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:37	1
Zinc	**0.051**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.018	0.0062	mg/Kg	☼	05/13/21 13:40	05/14/21 07:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.6**		0.2	0.2	SU			05/07/21 19:56	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (6-12)

Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*	*05/05/21 17:41*	*05/06/21 16:14*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 16:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/05/21 17:41*	*05/06/21 16:14*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 16:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (6-12)
Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1

Client Sample ID: 3530-16-B08 (6-12)
Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*89*		*31 - 166*	*05/12/21 17:38*	*05/13/21 15:48*	*1*
Phenol-d5	*83*		*30 - 153*	*05/12/21 17:38*	*05/13/21 15:48*	*1*
Nitrobenzene-d5	*84*		*37 - 147*	*05/12/21 17:38*	*05/13/21 15:48*	*1*
2-Fluorobiphenyl	*93*		*43 - 145*	*05/12/21 17:38*	*05/13/21 15:48*	*1*
2,4,6-Tribromophenol	*41*		*31 - 143*	*05/12/21 17:38*	*05/13/21 15:48*	*1*
Terphenyl-d14	*129*		*42 - 157*	*05/12/21 17:38*	*05/13/21 15:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Arsenic	**5.5**		0.56	0.19	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Barium	**88**		0.56	0.064	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Beryllium	**0.68**		0.22	0.052	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Boron	**0.71**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Calcium	**1200**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Chromium	**16**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Cobalt	**8.6**		0.28	0.073	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Copper	**9.7**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Iron	**16000**		11	5.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Lead	**12**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Magnesium	**1700**		5.6	2.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Manganese	**450**		0.56	0.081	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Nickel	**16**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Potassium	**660**	**B**	28	9.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Silver	**0.31**		0.28	0.072	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Sodium	**90**	**B**	56	8.3	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Thallium	**0.78**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Vanadium	**26**		0.28	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1
Zinc	**40**		1.1	0.49	mg/Kg	☼	05/10/21 09:12	05/10/21 17:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.31**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:41	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:41	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (6-12)
Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:41	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:41	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:41	1
Iron	**0.37**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:41	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:41	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:41	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:41	1
Zinc	**0.026**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.018	0.0061	mg/Kg	☼	05/13/21 13:40	05/14/21 07:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.5**		0.2	0.2	SU			05/07/21 19:58	1

Client Sample ID: 3530-16-B07 (0-6) **Lab Sample ID: 500-198668-11**
Date Collected: 05/04/21 15:30 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0098	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,2-Dichloropropane	<0.0023		0.0023	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*75 - 131*	*05/05/21 17:41*	*05/06/21 16:40*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*05/05/21 17:41*	*05/06/21 16:40*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 16:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B07 (0-6)
Date Collected: 05/04/21 15:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-11
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4-Dinitrophenol	<0.83	*-	0.83	0.72	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1

Client Sample ID: 3530-16-B07 (0-6)
Date Collected: 05/04/21 15:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-11
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*73*		*31 - 166*	*05/12/21 17:38*	*05/13/21 12:27*	*1*
Phenol-d5	*66*		*30 - 153*	*05/12/21 17:38*	*05/13/21 12:27*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*05/12/21 17:38*	*05/13/21 12:27*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*05/12/21 17:38*	*05/13/21 12:27*	*1*
2,4,6-Tribromophenol	*125*		*31 - 143*	*05/12/21 17:38*	*05/13/21 12:27*	*1*
Terphenyl-d14	*86*		*42 - 157*	*05/12/21 17:38*	*05/13/21 12:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.82**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Arsenic	**11**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Barium	**57**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Beryllium	**0.67**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Boron	**3.0**		2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Calcium	**1400**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Chromium	**22**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Cobalt	**5.9**		0.58	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 16:03	2
Copper	**14**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Iron	**24000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Lead	**16**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Magnesium	**2900**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Manganese	**250**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Nickel	**14**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Potassium	**1200**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Selenium	**0.41**	**J**	0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Silver	**0.33**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Sodium	**63**	**B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Thallium	**0.56**	**J**	0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Vanadium	**44**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1
Zinc	**53**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 17:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.22**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:44	1
Boron	**0.24**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:44	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B07 (0-6)
Date Collected: 05/04/21 15:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-11
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:44	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:44	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:44	1
Iron	**0.24**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:44	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:44	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:44	1
Zinc	**0.041**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.019	0.0064	mg/Kg	☼	05/13/21 13:40	05/14/21 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.2**		0.2	0.2	SU			05/07/21 20:00	1

Client Sample ID: 3530-16-B07 (6-12)
Date Collected: 05/04/21 15:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-12
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Methylene Chloride	**0.0023**	**J**	0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:06*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:06*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B07 (6-12)
Lab Sample ID: 500-198668-12
Date Collected: 05/04/21 15:40
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1

Client Sample ID: 3530-16-B07 (6-12)
Date Collected: 05/04/21 15:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-12
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*31 - 166*	*05/12/21 17:38*	*05/13/21 12:49*	*1*
Phenol-d5	*61*		*30 - 153*	*05/12/21 17:38*	*05/13/21 12:49*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*05/12/21 17:38*	*05/13/21 12:49*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*05/12/21 17:38*	*05/13/21 12:49*	*1*
2,4,6-Tribromophenol	*117*		*31 - 143*	*05/12/21 17:38*	*05/13/21 12:49*	*1*
Terphenyl-d14	*85*		*42 - 157*	*05/12/21 17:38*	*05/13/21 12:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Arsenic	**3.4**		0.56	0.19	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Barium	**67**		0.56	0.064	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Beryllium	**0.70**		0.22	0.053	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Boron	**1.1**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Calcium	**1100**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Chromium	**14**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Cobalt	**6.1**		0.56	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 16:07	2
Copper	**7.0**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Iron	**12000**		11	5.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Lead	**8.1**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Magnesium	**1700**		5.6	2.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Manganese	**210**		0.56	0.082	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Nickel	**20**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Potassium	**530**	**B**	28	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Silver	**0.48**		0.28	0.073	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Sodium	**96**	**B**	56	8.3	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Vanadium	**25**		0.28	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1
Zinc	**40**		1.1	0.49	mg/Kg	☼	05/10/21 09:12	05/10/21 17:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.52**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:48	1
Boron	**0.13**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:48	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B07 (6-12)
Date Collected: 05/04/21 15:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-12
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:48	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:48	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:48	1
Iron	**0.30**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:48	1
Nickel	**0.040**		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:48	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:48	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:48	1
Zinc	**0.096**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0065	mg/Kg	☼	05/13/21 13:40	05/14/21 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.6**		0.2	0.2	SU			05/07/21 20:03	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B06 (0-6)
Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-13
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:32*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:32*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B06 (0-6)
Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-13
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4-Dinitrophenol	<0.81	*-	0.81	0.71	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1

Client Sample ID: 3530-16-B06 (0-6)
Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-13
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*79*		*31 - 166*	*05/12/21 17:38*	*05/13/21 13:10*	*1*
Phenol-d5	*61*		*30 - 153*	*05/12/21 17:38*	*05/13/21 13:10*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*05/12/21 17:38*	*05/13/21 13:10*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/12/21 17:38*	*05/13/21 13:10*	*1*
2,4,6-Tribromophenol	*112*		*31 - 143*	*05/12/21 17:38*	*05/13/21 13:10*	*1*
Terphenyl-d14	*86*		*42 - 157*	*05/12/21 17:38*	*05/13/21 13:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.56**	**J**	1.2	0.24	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Arsenic	**7.9**		0.61	0.21	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Barium	**54**		0.61	0.069	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Beryllium	**0.55**		0.24	0.057	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Boron	**2.4**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Calcium	**2200**	**B**	12	2.1	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Chromium	**17**		0.61	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Cobalt	**9.3**		0.61	0.16	mg/Kg	☼	05/10/21 09:12	05/11/21 16:10	2
Copper	**8.6**		0.61	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Iron	**18000**		12	6.3	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Lead	**13**		0.30	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Magnesium	**2200**		6.1	3.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Manganese	**330**		0.61	0.088	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Nickel	**12**		0.61	0.18	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Potassium	**960**	**B**	30	11	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Silver	**0.32**		0.30	0.078	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Sodium	**46**	**J B**	61	9.0	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Thallium	**0.83**		0.61	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Vanadium	**35**		0.30	0.071	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1
Zinc	**39**		1.2	0.53	mg/Kg	☼	05/10/21 09:12	05/10/21 17:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.20**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 11:51	1
Boron	**0.16**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 11:51	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B06 (0-6)
Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-13
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 11:51	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:51	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:51	1
Iron	**0.30**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 11:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 11:51	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:51	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 11:51	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 11:51	1
Zinc	**0.042**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.020	0.0067	mg/Kg	☼	05/13/21 13:40	05/14/21 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			05/07/21 20:08	1

Client Sample ID: 3530-16-B06 (6-12)
Date Collected: 05/04/21 16:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-14
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/05/21 17:41*	*05/06/21 17:58*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/05/21 17:41*	*05/06/21 17:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*05/05/21 17:41*	*05/06/21 17:58*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 17:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B06 (6-12)
Lab Sample ID: 500-198668-14
Date Collected: 05/04/21 16:00
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1

Client Sample ID: 3530-16-B06 (6-12)
Date Collected: 05/04/21 16:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-14
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*74*		*31 - 166*	*05/12/21 17:38*	*05/13/21 13:32*	*1*
Phenol-d5	*66*		*30 - 153*	*05/12/21 17:38*	*05/13/21 13:32*	*1*
Nitrobenzene-d5	*65*		*37 - 147*	*05/12/21 17:38*	*05/13/21 13:32*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*05/12/21 17:38*	*05/13/21 13:32*	*1*
2,4,6-Tribromophenol	*98*		*31 - 143*	*05/12/21 17:38*	*05/13/21 13:32*	*1*
Terphenyl-d14	*84*		*42 - 157*	*05/12/21 17:38*	*05/13/21 13:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.54**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Arsenic	**4.3**		0.56	0.19	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Barium	**77**		0.56	0.064	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Beryllium	**0.66**		0.23	0.053	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Boron	**0.78**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Calcium	**1100**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Chromium	**16**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Cobalt	**12**		0.28	0.074	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Copper	**8.6**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Iron	**15000**		11	5.9	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Lead	**11**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Magnesium	**1600**		5.6	2.8	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Manganese	**680**		0.56	0.082	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Nickel	**14**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Potassium	**660**	**B**	28	10	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Silver	**0.28**		0.28	0.073	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Sodium	**80**	**B**	56	8.3	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Thallium	**1.0**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Vanadium	**25**		0.28	0.067	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1
Zinc	**31**		1.1	0.50	mg/Kg	☼	05/10/21 09:12	05/10/21 17:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.37**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:02	1
Boron	**0.12**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:02	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B06 (6-12)
Date Collected: 05/04/21 16:00
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-14
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:02	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:02	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:02	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:02	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:02	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:02	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:02	1
Zinc	**0.031**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.018	0.0060	mg/Kg	☼	05/13/21 13:40	05/14/21 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**		0.2	0.2	SU			05/07/21 20:10	1

Client Sample ID: 3530-16-B05 (0-6)
Date Collected: 05/04/21 16:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-15
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*05/05/21 17:41*	*05/06/21 18:24*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 18:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*05/05/21 17:41*	*05/06/21 18:24*	*1*
Toluene-d8 (Surr)	*87*		*75 - 124*	*05/05/21 17:41*	*05/06/21 18:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B05 (0-6)
Date Collected: 05/04/21 16:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-15
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Naphthalene	**0.049**		0.041	0.0064	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Methylnaphthalene	**0.056**	**J**	0.084	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4-Dinitrophenol	<0.84	*-	0.84	0.73	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Phenanthrene	**0.12**		0.041	0.0058	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Anthracene	**0.035**	**J**	0.041	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Fluoranthene	**0.43**		0.041	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Pyrene	**0.46**		0.041	0.0083	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Benzo[a]anthracene	**0.47**		0.041	0.0056	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1

Client Sample ID: 3530-16-B05 (0-6)
Date Collected: 05/04/21 16:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-15
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.47**		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Benzo[b]fluoranthene	**0.64**		0.041	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Benzo[k]fluoranthene	**0.28**		0.041	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Benzo[a]pyrene	**0.58**		0.041	0.0081	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Indeno[1,2,3-cd]pyrene	**0.26**		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Dibenz(a,h)anthracene	**0.078**		0.041	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
Benzo[g,h,i]perylene	**0.27**		0.041	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/12/21 17:38	05/13/21 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*31 - 166*	*05/12/21 17:38*	*05/13/21 16:01*	*1*
Phenol-d5	*11*	*S1-*	*30 - 153*	*05/12/21 17:38*	*05/13/21 16:01*	*1*
Nitrobenzene-d5	*60*		*37 - 147*	*05/12/21 17:38*	*05/13/21 16:01*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*05/12/21 17:38*	*05/13/21 16:01*	*1*
2,4,6-Tribromophenol	*89*		*31 - 143*	*05/12/21 17:38*	*05/13/21 16:01*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/12/21 17:38*	*05/13/21 16:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**		1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Arsenic	**11**		0.59	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Barium	**81**		0.59	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Beryllium	**0.72**		0.24	0.055	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Boron	**2.5**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Cadmium	**0.47**	**B**	0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Calcium	**2800**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Chromium	**20**		0.59	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Cobalt	**5.8**		0.59	0.16	mg/Kg	☼	05/10/21 09:12	05/11/21 16:13	2
Copper	**18**		0.59	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Iron	**23000**		12	6.2	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Lead	**45**		0.30	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Magnesium	**2400**		5.9	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Manganese	**250**		0.59	0.086	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Nickel	**14**		0.59	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Potassium	**1200**	**B**	30	11	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Selenium	**0.54**	**J**	0.59	0.35	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Silver	**11**		0.30	0.077	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Sodium	**46**	**J B**	59	8.8	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Thallium	**0.41**	**J**	0.59	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Vanadium	**42**		0.30	0.070	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1
Zinc	**96**		1.2	0.52	mg/Kg	☼	05/10/21 09:12	05/10/21 18:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.37**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:06	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:06	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B05 (0-6)
Date Collected: 05/04/21 16:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-15
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0027**	**J**	0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:06	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:06	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:06	1
Iron	**0.50**		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:06	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:06	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:06	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:06	1
Zinc	**0.082**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.019	0.0064	mg/Kg	☼	05/13/21 13:40	05/14/21 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**		0.2	0.2	SU			05/07/21 20:13	1

Client Sample ID: 3530-16-B05 (6-12)
Date Collected: 05/04/21 16:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-16
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.011**	**J**	0.018	0.0080	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
cis-1,2-Dichloroethene	**0.00089**	**J**	0.0018	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Tetrachloroethene	**0.00076**	**J**	0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/05/21 17:41*	*05/06/21 18:50*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/06/21 18:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/05/21 17:41*	*05/06/21 18:50*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 18:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B05 (6-12)
Date Collected: 05/04/21 16:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-16
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1

Client Sample ID: 3530-16-B05 (6-12)
Date Collected: 05/04/21 16:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-16
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*72*		*31 - 166*	*05/12/21 17:38*	*05/13/21 13:53*	*1*
Phenol-d5	*64*		*30 - 153*	*05/12/21 17:38*	*05/13/21 13:53*	*1*
Nitrobenzene-d5	*65*		*37 - 147*	*05/12/21 17:38*	*05/13/21 13:53*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*05/12/21 17:38*	*05/13/21 13:53*	*1*
2,4,6-Tribromophenol	*107*		*31 - 143*	*05/12/21 17:38*	*05/13/21 13:53*	*1*
Terphenyl-d14	*87*		*42 - 157*	*05/12/21 17:38*	*05/13/21 13:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Arsenic	**2.8**		0.56	0.19	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Barium	**88**		0.56	0.064	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Beryllium	**0.58**		0.22	0.052	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Boron	**1.3**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Cadmium	**0.020**	**J B**	0.11	0.020	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Calcium	**1000**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Chromium	**16**		0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Cobalt	**4.4**		0.56	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 16:16	2
Copper	**6.6**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Iron	**12000**		11	5.8	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Lead	**7.7**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Magnesium	**1600**		5.6	2.8	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Manganese	**210**		0.56	0.081	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Nickel	**17**		0.56	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Potassium	**850**	**B**	28	9.9	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Silver	**0.40**		0.28	0.072	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Sodium	**41**	**J B**	56	8.3	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Thallium	**0.37**	**J**	0.56	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Vanadium	**27**		0.28	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1
Zinc	**31**		1.1	0.49	mg/Kg	☼	05/10/21 09:12	05/10/21 18:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.46**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:09	1
Boron	**0.13**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:09	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B05 (6-12)

Date Collected: 05/04/21 16:15
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-16

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:09	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:09	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:09	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:09	1
Nickel	**0.063**		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:09	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:09	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:09	1
Zinc	**0.035**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.019	0.0064	mg/Kg	☼	05/13/21 13:40	05/14/21 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.3**		0.2	0.2	SU			05/07/21 20:15	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (0-6)
Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	05/05/21 17:41	05/06/21 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*05/05/21 17:41*	*05/06/21 19:16*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/05/21 17:41*	*05/06/21 19:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*05/05/21 17:41*	*05/06/21 19:16*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 19:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (0-6)
Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4-Dinitrophenol	<0.83	*-	0.83	0.72	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1

Client Sample ID: 3530-16-B04 (0-6)
Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/12/21 17:38	05/13/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*73*		*31 - 166*	*05/12/21 17:38*	*05/13/21 14:14*	*1*
Phenol-d5	*67*		*30 - 153*	*05/12/21 17:38*	*05/13/21 14:14*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*05/12/21 17:38*	*05/13/21 14:14*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*05/12/21 17:38*	*05/13/21 14:14*	*1*
2,4,6-Tribromophenol	*108*		*31 - 143*	*05/12/21 17:38*	*05/13/21 14:14*	*1*
Terphenyl-d14	*85*		*42 - 157*	*05/12/21 17:38*	*05/13/21 14:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.80**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Arsenic	**9.3**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Barium	**89**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Beryllium	**0.76**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Boron	**3.7**		2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Calcium	**2100**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Chromium	**20**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Cobalt	**6.5**		0.58	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 16:25	2
Copper	**16**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Iron	**22000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Lead	**14**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Magnesium	**2700**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Manganese	**330**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Nickel	**15**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Potassium	**1800**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Selenium	**0.46**	**J**	0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Silver	**0.41**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Sodium	**50**	**J B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Thallium	**0.53**	**J**	0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Vanadium	**37**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1
Zinc	**65**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 18:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.47**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:13	1
Boron	**0.26**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:13	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (0-6)
Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:13	1
Iron	**0.76**		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:13	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:13	1
Zinc	**0.073**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.010**	**J**	0.019	0.0065	mg/Kg	☼	05/13/21 13:40	05/14/21 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.3**		0.2	0.2	SU			05/07/21 20:18	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B04 (6-12)
Date Collected: 05/04/21 16:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-18
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/05/21 17:41*	*05/06/21 19:41*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*05/05/21 17:41*	*05/06/21 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*05/05/21 17:41*	*05/06/21 19:41*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/05/21 17:41*	*05/06/21 19:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (6-12)
Date Collected: 05/04/21 16:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-18
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4-Dinitrophenol	<0.78	*-	0.78	0.68	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1

Client Sample ID: 3530-16-B04 (6-12)
Date Collected: 05/04/21 16:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-18
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*74*		*31 - 166*	*05/12/21 17:38*	*05/13/21 14:36*	*1*
Phenol-d5	*63*		*30 - 153*	*05/12/21 17:38*	*05/13/21 14:36*	*1*
Nitrobenzene-d5	*70*		*37 - 147*	*05/12/21 17:38*	*05/13/21 14:36*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*05/12/21 17:38*	*05/13/21 14:36*	*1*
2,4,6-Tribromophenol	*108*		*31 - 143*	*05/12/21 17:38*	*05/13/21 14:36*	*1*
Terphenyl-d14	*83*		*42 - 157*	*05/12/21 17:38*	*05/13/21 14:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Arsenic	**3.4**		0.58	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Barium	**39**		0.58	0.066	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Beryllium	**0.64**		0.23	0.054	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Boron	**3.4**		2.9	0.27	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Cadmium	**0.025**	**J B**	0.12	0.021	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Calcium	**1100**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Chromium	**14**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Cobalt	**6.8**		0.29	0.076	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Copper	**6.4**		0.58	0.16	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Iron	**12000**		12	6.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Lead	**8.1**		0.29	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Magnesium	**1500**		5.8	2.9	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Manganese	**270**		0.58	0.084	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Nickel	**22**		0.58	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Potassium	**730**	**B**	29	10	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Silver	**0.36**		0.29	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Sodium	**51**	**J B**	58	8.6	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Thallium	**0.59**		0.58	0.29	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Vanadium	**26**		0.29	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1
Zinc	**31**		1.2	0.51	mg/Kg	☼	05/10/21 09:12	05/10/21 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:17	1
Boron	**0.23**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:17	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (6-12)

Date Collected: 05/04/21 16:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-18

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:17	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:17	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:17	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:17	1
Nickel	**0.038**		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:17	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:17	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:17	1
Zinc	**0.044**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.020	0.0065	mg/Kg	☼	05/13/21 13:40	05/14/21 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.7**		0.2	0.2	SU			05/07/21 20:20	1

Client: Environmental Design International, Inc.
Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-16-B03 (0-6)
Date Collected: 05/04/21 16:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-19
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*05/05/21 17:41*	*05/06/21 20:07*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/05/21 17:41*	*05/06/21 20:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*05/05/21 17:41*	*05/06/21 20:07*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/05/21 17:41*	*05/06/21 20:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (0-6)
Date Collected: 05/04/21 16:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-19
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4-Dinitrophenol	<0.83	*-	0.83	0.73	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1

Client Sample ID: 3530-16-B03 (0-6)
Date Collected: 05/04/21 16:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-19
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/12/21 17:38	05/13/21 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*31 - 166*	*05/12/21 17:38*	*05/13/21 14:57*	*1*
Phenol-d5	*66*		*30 - 153*	*05/12/21 17:38*	*05/13/21 14:57*	*1*
Nitrobenzene-d5	*71*		*37 - 147*	*05/12/21 17:38*	*05/13/21 14:57*	*1*
2-Fluorobiphenyl	*91*		*43 - 145*	*05/12/21 17:38*	*05/13/21 14:57*	*1*
2,4,6-Tribromophenol	*127*		*31 - 143*	*05/12/21 17:38*	*05/13/21 14:57*	*1*
Terphenyl-d14	*87*		*42 - 157*	*05/12/21 17:38*	*05/13/21 14:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.94**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Arsenic	**7.9**		0.60	0.20	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Barium	**140**		0.60	0.068	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Beryllium	**0.59**		0.24	0.056	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Boron	**1.1**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Calcium	**1400**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Chromium	**18**		0.60	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Cobalt	**5.0**		0.30	0.078	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Copper	**15**		0.60	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Iron	**21000**		12	6.2	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Lead	**13**		0.30	0.14	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Magnesium	**2600**		6.0	3.0	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Manganese	**160**		0.60	0.087	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Nickel	**13**		0.60	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Potassium	**1100**	**B**	30	11	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Silver	**0.35**		0.30	0.077	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Sodium	**160**	**B**	60	8.8	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Vanadium	**27**		0.30	0.070	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1
Zinc	**67**		1.2	0.52	mg/Kg	☼	05/10/21 09:12	05/10/21 18:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.20**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:20	1
Boron	**0.096**	**J**	0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:20	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (0-6)
Date Collected: 05/04/21 16:40
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-19
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:20	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:20	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:20	1
Iron	**0.37**	**J**	0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:20	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:20	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:20	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:20	1
Zinc	**0.19**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.020	0.0067	mg/Kg	☼	05/13/21 13:40	05/14/21 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.5**		0.2	0.2	SU			05/07/21 20:22	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (6-12)
Date Collected: 05/04/21 16:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-20
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	05/05/21 17:41	05/06/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*75 - 131*	*05/05/21 17:41*	*05/06/21 19:17*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*05/05/21 17:41*	*05/06/21 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*05/05/21 17:41*	*05/06/21 19:17*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*05/05/21 17:41*	*05/06/21 19:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (6-12)
Date Collected: 05/04/21 16:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-20
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4-Dinitrophenol	<0.80	*-	0.80	0.70	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1

Client Sample ID: 3530-16-B03 (6-12)
Date Collected: 05/04/21 16:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-20
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/12/21 17:38	05/13/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*71*		*31 - 166*	*05/12/21 17:38*	*05/13/21 15:18*	*1*
Phenol-d5	*61*		*30 - 153*	*05/12/21 17:38*	*05/13/21 15:18*	*1*
Nitrobenzene-d5	*66*		*37 - 147*	*05/12/21 17:38*	*05/13/21 15:18*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*05/12/21 17:38*	*05/13/21 15:18*	*1*
2,4,6-Tribromophenol	*106*		*31 - 143*	*05/12/21 17:38*	*05/13/21 15:18*	*1*
Terphenyl-d14	*79*		*42 - 157*	*05/12/21 17:38*	*05/13/21 15:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.46**	**J**	2.3	0.44	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Arsenic	**4.2**		1.1	0.39	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Barium	**300**		1.1	0.13	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Beryllium	**0.89**		0.46	0.11	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Boron	**0.63**	**J**	5.7	0.53	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Cadmium	<0.23		0.23	0.041	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Calcium	**990**	**B**	23	3.9	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Chromium	**16**		1.1	0.56	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Cobalt	**10**		0.28	0.075	mg/Kg	☼	05/10/21 09:12	05/10/21 18:23	1
Copper	**8.2**		1.1	0.32	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Iron	**13000**		23	12	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Lead	**11**		0.28	0.13	mg/Kg	☼	05/10/21 09:12	05/10/21 18:23	1
Magnesium	**1700**		11	5.6	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Manganese	**360**		1.1	0.17	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Nickel	**20**		0.57	0.17	mg/Kg	☼	05/10/21 09:12	05/10/21 18:23	1
Potassium	**540**	**B**	57	20	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Selenium	<1.1		1.1	0.67	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Silver	**0.58**		0.57	0.15	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Sodium	**140**	**B**	110	17	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Thallium	**0.36**	**J**	0.57	0.28	mg/Kg	☼	05/10/21 09:12	05/10/21 18:23	1
Vanadium	**26**		0.57	0.13	mg/Kg	☼	05/10/21 09:12	05/11/21 16:32	2
Zinc	**47**		1.1	0.50	mg/Kg	☼	05/10/21 09:12	05/10/21 18:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.54**		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 12:24	1
Boron	<0.50		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 12:24	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (6-12)
Date Collected: 05/04/21 16:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-20
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 12:24	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:24	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:24	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 12:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 12:24	1
Nickel	**0.034**		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:24	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 12:24	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 12:24	1
Zinc	**0.029**	**J *+**	0.50	0.020	mg/L		05/16/21 07:35	05/17/21 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 18:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0060	mg/Kg	☼	05/13/21 13:40	05/14/21 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.5**		0.2	0.2	SU			05/07/21 20:25	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 597057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	5035	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	5035	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	5035	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	5035	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	5035	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	5035	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	5035	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	5035	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	5035	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	5035	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	5035	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	5035	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	5035	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	5035	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	5035	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	5035	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	5035	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	5035	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	5035	
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 597083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	8260B	597057
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	8260B	597057
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	8260B	597057
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	8260B	597057
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	8260B	597057
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	8260B	597057
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	8260B	597057
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	8260B	597057
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	8260B	597057
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	8260B	597057
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	8260B	597057
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	8260B	597057
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	8260B	597057
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	8260B	597057
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	8260B	597057
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	8260B	597057
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	8260B	597057
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	8260B	597057
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	8260B	597057
MB 500-597083/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597083/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-597083/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 597090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	8260B	597057
MB 500-597090/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597090/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 597090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-597090/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 598423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	3541	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	3541	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	3541	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	3541	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	3541	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	3541	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	3541	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	3541	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	3541	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	3541	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	3541	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	3541	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	3541	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	3541	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	3541	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	3541	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	3541	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	3541	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	3541	
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	3541	
MB 500-598423/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-598423/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-198668-5 MS	3530-16-B02 (0-6)	Total/NA	Solid	3541	
500-198668-5 MSD	3530-16-B02 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 598506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	8270D	598423
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	8270D	598423
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	8270D	598423
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	8270D	598423
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	8270D	598423
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	8270D	598423
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	8270D	598423
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	8270D	598423
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	8270D	598423
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	8270D	598423
MB 500-598423/1-A	Method Blank	Total/NA	Solid	8270D	598423
LCS 500-598423/2-A	Lab Control Sample	Total/NA	Solid	8270D	598423
500-198668-5 MS	3530-16-B02 (0-6)	Total/NA	Solid	8270D	598423
500-198668-5 MSD	3530-16-B02 (0-6)	Total/NA	Solid	8270D	598423

Analysis Batch: 598520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	8270D	598423

GC/MS Semi VOA (Continued)

Analysis Batch: 598520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	8270D	598423
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	8270D	598423
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	8270D	598423
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	8270D	598423
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	8270D	598423
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	8270D	598423
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	8270D	598423
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	8270D	598423
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	8270D	598423

Metals

Prep Batch: 597812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	3050B	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	3050B	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	3050B	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	3050B	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	3050B	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	3050B	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	3050B	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	3050B	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	3050B	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	3050B	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	3050B	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	3050B	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	3050B	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	3050B	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	3050B	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	3050B	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	3050B	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	3050B	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	3050B	
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	3050B	
MB 500-597812/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-597812/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-198668-1 MS	3530-16-B01 (0-6)	Total/NA	Solid	3050B	
500-198668-1 MSD	3530-16-B01 (0-6)	Total/NA	Solid	3050B	
500-198668-1 DU	3530-16-B01 (0-6)	Total/NA	Solid	3050B	

Analysis Batch: 597949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	6010B	597812
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	6010B	597812
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	6010B	597812
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	6010B	597812
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	6010B	597812
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	6010B	597812
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	6010B	597812
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	6010B	597812
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	6010B	597812

Metals (Continued)

Analysis Batch: 597949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	6010B	597812
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	6010B	597812
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	6010B	597812
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	6010B	597812
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	6010B	597812
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	6010B	597812
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	6010B	597812
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	6010B	597812
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	6010B	597812
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	6010B	597812
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	6010B	597812
MB 500-597812/1-A	Method Blank	Total/NA	Solid	6010B	597812
LCS 500-597812/2-A	Lab Control Sample	Total/NA	Solid	6010B	597812
500-198668-1 MS	3530-16-B01 (0-6)	Total/NA	Solid	6010B	597812
500-198668-1 MSD	3530-16-B01 (0-6)	Total/NA	Solid	6010B	597812
500-198668-1 DU	3530-16-B01 (0-6)	Total/NA	Solid	6010B	597812

Analysis Batch: 598227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	6010B	597812
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	6010B	597812
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	6010B	597812
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	6010B	597812
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	6010B	597812
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	6010B	597812
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	6010B	597812
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	6010B	597812
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	6010B	597812
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	6010B	597812

Prep Batch: 598645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	7471B	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	7471B	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	7471B	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	7471B	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	7471B	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	7471B	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	7471B	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	7471B	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	7471B	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	7471B	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	7471B	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	7471B	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	7471B	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	7471B	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	7471B	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	7471B	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	7471B	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	7471B	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 598645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	7471B	
MB 500-598645/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-598645/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-198668-10 MS	3530-16-B08 (6-12)	Total/NA	Solid	7471B	
500-198668-10 MSD	3530-16-B08 (6-12)	Total/NA	Solid	7471B	
500-198668-10 DU	3530-16-B08 (6-12)	Total/NA	Solid	7471B	

Leach Batch: 598824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	1311	
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	1311	
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	1311	
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	1311	
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	1311	
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	1311	
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	1311	
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	1311	
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	1311	
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	1311	
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	1311	
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	1311	
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	1311	
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	1311	
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	1311	
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	1311	
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	1311	
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	1311	
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	1311	
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	1311	
LB 500-598824/1-B	Method Blank	TCLP	Solid	1311	
LB 500-598824/1-C	Method Blank	TCLP	Solid	1311	
500-198668-10 MS	3530-16-B08 (6-12)	TCLP	Solid	1311	
500-198668-20 MS	3530-16-B03 (6-12)	TCLP	Solid	1311	
500-198668-10 DU	3530-16-B08 (6-12)	TCLP	Solid	1311	
500-198668-20 DU	3530-16-B03 (6-12)	TCLP	Solid	1311	

Leach Batch: 598830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	SPLP East	Solid	1312	
500-198668-3	3530-16-B10 (0-6)	SPLP East	Solid	1312	
500-198668-4	3530-16-B10 (6-12)	SPLP East	Solid	1312	
500-198668-7	3530-16-B09 (0-6)	SPLP East	Solid	1312	
LB 500-598830/1-B	Method Blank	SPLP East	Solid	1312	
500-198668-E-20-K MS	500-198668-E-20-K MS	SPLP East	Solid	1312	
500-198668-E-20-J DU	500-198668-E-20-J DU	SPLP East	Solid	1312	

Analysis Batch: 598885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	7471B	598645
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	7471B	598645
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	7471B	598645

Metals (Continued)

Analysis Batch: 598885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	7471B	598645
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	7471B	598645
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	7471B	598645
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	7471B	598645
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	7471B	598645
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	7471B	598645
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	7471B	598645
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	7471B	598645
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	7471B	598645
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	7471B	598645
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	7471B	598645
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	7471B	598645
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	7471B	598645
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	7471B	598645
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	7471B	598645
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	7471B	598645
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	7471B	598645
MB 500-598645/12-A	Method Blank	Total/NA	Solid	7471B	598645
LCS 500-598645/13-A	Lab Control Sample	Total/NA	Solid	7471B	598645
500-198668-10 MS	3530-16-B08 (6-12)	Total/NA	Solid	7471B	598645
500-198668-10 MSD	3530-16-B08 (6-12)	Total/NA	Solid	7471B	598645
500-198668-10 DU	3530-16-B08 (6-12)	Total/NA	Solid	7471B	598645

Prep Batch: 598956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	7470A	598824
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	7470A	598824
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	7470A	598824
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	7470A	598824
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	7470A	598824
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	7470A	598824
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	7470A	598824
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	7470A	598824
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	7470A	598824
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	7470A	598824
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	7470A	598824
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	7470A	598824
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	7470A	598824
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	7470A	598824
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	7470A	598824
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	7470A	598824
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	7470A	598824
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	7470A	598824
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	7470A	598824
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	7470A	598824
LB 500-598824/1-B	Method Blank	TCLP	Solid	7470A	598824
MB 500-598956/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598956/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-198668-10 MS	3530-16-B08 (6-12)	TCLP	Solid	7470A	598824
500-198668-10 DU	3530-16-B08 (6-12)	TCLP	Solid	7470A	598824

Metals

Prep Batch: 599094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	3010A	598824
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	3010A	598824
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	3010A	598824
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	3010A	598824
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	3010A	598824
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	3010A	598824
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	3010A	598824
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	3010A	598824
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	3010A	598824
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	3010A	598824
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	3010A	598824
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	3010A	598824
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	3010A	598824
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	3010A	598824
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	3010A	598824
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	3010A	598824
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	3010A	598824
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	3010A	598824
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	3010A	598824
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	3010A	598824
LB 500-598824/1-C	Method Blank	TCLP	Solid	3010A	598824
LCS 500-599094/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-198668-20 MS	3530-16-B03 (6-12)	TCLP	Solid	3010A	598824
500-198668-20 DU	3530-16-B03 (6-12)	TCLP	Solid	3010A	598824

Prep Batch: 599096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	SPLP East	Solid	3010A	598830
500-198668-3	3530-16-B10 (0-6)	SPLP East	Solid	3010A	598830
500-198668-4	3530-16-B10 (6-12)	SPLP East	Solid	3010A	598830
500-198668-7	3530-16-B09 (0-6)	SPLP East	Solid	3010A	598830
LB 500-598830/1-B	Method Blank	SPLP East	Solid	3010A	598830
LCS 500-599096/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-198668-E-20-K MS	500-198668-E-20-K MS	SPLP East	Solid	3010A	598830
500-198668-E-20-J DU	500-198668-E-20-J DU	SPLP East	Solid	3010A	598830

Analysis Batch: 599256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	7470A	598956
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	7470A	598956
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	7470A	598956
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	7470A	598956
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	7470A	598956
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	7470A	598956
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	7470A	598956
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	7470A	598956
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	7470A	598956
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	7470A	598956
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	7470A	598956
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	7470A	598956
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	7470A	598956

Metals (Continued)

Analysis Batch: 599256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	7470A	598956
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	7470A	598956
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	7470A	598956
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	7470A	598956
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	7470A	598956
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	7470A	598956
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	7470A	598956
LB 500-598824/1-B	Method Blank	TCLP	Solid	7470A	598956
MB 500-598956/12-A	Method Blank	Total/NA	Solid	7470A	598956
LCS 500-598956/14-A	Lab Control Sample	Total/NA	Solid	7470A	598956
500-198668-10 MS	3530-16-B08 (6-12)	TCLP	Solid	7470A	598956
500-198668-10 DU	3530-16-B08 (6-12)	TCLP	Solid	7470A	598956

Analysis Batch: 599473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	SPLP East	Solid	6010B	599096
500-198668-3	3530-16-B10 (0-6)	SPLP East	Solid	6010B	599096
500-198668-4	3530-16-B10 (6-12)	SPLP East	Solid	6010B	599096
500-198668-7	3530-16-B09 (0-6)	SPLP East	Solid	6010B	599096
LB 500-598830/1-B	Method Blank	SPLP East	Solid	6010B	599096
LCS 500-599096/2-A	Lab Control Sample	Total/NA	Solid	6010B	599096
500-198668-E-20-K MS	500-198668-E-20-K MS	SPLP East	Solid	6010B	599096
500-198668-E-20-J DU	500-198668-E-20-J DU	SPLP East	Solid	6010B	599096

Analysis Batch: 599506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	6010B	599094
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	6010B	599094
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	6010B	599094
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	6010B	599094
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	6010B	599094
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	6010B	599094
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	6010B	599094
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	6010B	599094
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	6010B	599094
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	6010B	599094
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	6010B	599094
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	6010B	599094
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	6010B	599094
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	6010B	599094
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	6010B	599094
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	6010B	599094
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	6010B	599094
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	6010B	599094
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	6010B	599094
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	6010B	599094
LB 500-598824/1-C	Method Blank	TCLP	Solid	6010B	599094
LCS 500-599094/2-A	Lab Control Sample	Total/NA	Solid	6010B	599094
500-198668-20 MS	3530-16-B03 (6-12)	TCLP	Solid	6010B	599094
500-198668-20 DU	3530-16-B03 (6-12)	TCLP	Solid	6010B	599094

Metals

Analysis Batch: 599518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	TCLP	Solid	6020A	599094
500-198668-2	3530-16-B01 (6-12)	TCLP	Solid	6020A	599094
500-198668-3	3530-16-B10 (0-6)	TCLP	Solid	6020A	599094
500-198668-4	3530-16-B10 (6-12)	TCLP	Solid	6020A	599094
500-198668-5	3530-16-B02 (0-6)	TCLP	Solid	6020A	599094
500-198668-6	3530-16-B02 (6-12)	TCLP	Solid	6020A	599094
500-198668-7	3530-16-B09 (0-6)	TCLP	Solid	6020A	599094
500-198668-8	3530-16-B09 (6-12)	TCLP	Solid	6020A	599094
500-198668-9	3530-16-B08 (0-6)	TCLP	Solid	6020A	599094
500-198668-10	3530-16-B08 (6-12)	TCLP	Solid	6020A	599094
500-198668-11	3530-16-B07 (0-6)	TCLP	Solid	6020A	599094
500-198668-12	3530-16-B07 (6-12)	TCLP	Solid	6020A	599094
500-198668-13	3530-16-B06 (0-6)	TCLP	Solid	6020A	599094
500-198668-14	3530-16-B06 (6-12)	TCLP	Solid	6020A	599094
500-198668-15	3530-16-B05 (0-6)	TCLP	Solid	6020A	599094
500-198668-16	3530-16-B05 (6-12)	TCLP	Solid	6020A	599094
500-198668-17	3530-16-B04 (0-6)	TCLP	Solid	6020A	599094
500-198668-18	3530-16-B04 (6-12)	TCLP	Solid	6020A	599094
500-198668-19	3530-16-B03 (0-6)	TCLP	Solid	6020A	599094
500-198668-20	3530-16-B03 (6-12)	TCLP	Solid	6020A	599094
LB 500-598824/1-C	Method Blank	TCLP	Solid	6020A	599094
LCS 500-599094/2-A	Lab Control Sample	Total/NA	Solid	6020A	599094
500-198668-20 MS	3530-16-B03 (6-12)	TCLP	Solid	6020A	599094
500-198668-20 DU	3530-16-B03 (6-12)	TCLP	Solid	6020A	599094

General Chemistry

Analysis Batch: 597496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	Moisture	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	Moisture	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	Moisture	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	Moisture	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	Moisture	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	Moisture	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	Moisture	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	Moisture	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	Moisture	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	Moisture	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	Moisture	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	Moisture	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	Moisture	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	Moisture	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	Moisture	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	Moisture	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	Moisture	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	Moisture	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	Moisture	
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	Moisture	
500-198668-5 DU	3530-16-B02 (0-6)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

General Chemistry

Analysis Batch: 597710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198668-1	3530-16-B01 (0-6)	Total/NA	Solid	9045D	
500-198668-2	3530-16-B01 (6-12)	Total/NA	Solid	9045D	
500-198668-3	3530-16-B10 (0-6)	Total/NA	Solid	9045D	
500-198668-4	3530-16-B10 (6-12)	Total/NA	Solid	9045D	
500-198668-5	3530-16-B02 (0-6)	Total/NA	Solid	9045D	
500-198668-6	3530-16-B02 (6-12)	Total/NA	Solid	9045D	
500-198668-7	3530-16-B09 (0-6)	Total/NA	Solid	9045D	
500-198668-8	3530-16-B09 (6-12)	Total/NA	Solid	9045D	
500-198668-9	3530-16-B08 (0-6)	Total/NA	Solid	9045D	
500-198668-10	3530-16-B08 (6-12)	Total/NA	Solid	9045D	
500-198668-11	3530-16-B07 (0-6)	Total/NA	Solid	9045D	
500-198668-12	3530-16-B07 (6-12)	Total/NA	Solid	9045D	
500-198668-13	3530-16-B06 (0-6)	Total/NA	Solid	9045D	
500-198668-14	3530-16-B06 (6-12)	Total/NA	Solid	9045D	
500-198668-15	3530-16-B05 (0-6)	Total/NA	Solid	9045D	
500-198668-16	3530-16-B05 (6-12)	Total/NA	Solid	9045D	
500-198668-17	3530-16-B04 (0-6)	Total/NA	Solid	9045D	
500-198668-18	3530-16-B04 (6-12)	Total/NA	Solid	9045D	
500-198668-19	3530-16-B03 (0-6)	Total/NA	Solid	9045D	
500-198668-20	3530-16-B03 (6-12)	Total/NA	Solid	9045D	
LCS 500-597710/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597710/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-198668-5 DU	3530-16-B02 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198668-1	3530-16-B01 (0-6)	93	101	93	89
500-198668-2	3530-16-B01 (6-12)	91	100	91	88
500-198668-3	3530-16-B10 (0-6)	90	103	93	88
500-198668-4	3530-16-B10 (6-12)	92	97	89	88
500-198668-5	3530-16-B02 (0-6)	90	103	93	89
500-198668-6	3530-16-B02 (6-12)	88	102	92	88
500-198668-7	3530-16-B09 (0-6)	88	102	94	88
500-198668-8	3530-16-B09 (6-12)	89	104	91	88
500-198668-9	3530-16-B08 (0-6)	89	102	91	89
500-198668-10	3530-16-B08 (6-12)	86	102	93	89
500-198668-11	3530-16-B07 (0-6)	87	103	92	88
500-198668-12	3530-16-B07 (6-12)	91	101	93	88
500-198668-13	3530-16-B06 (0-6)	87	101	91	89
500-198668-14	3530-16-B06 (6-12)	91	100	92	89
500-198668-15	3530-16-B05 (0-6)	89	102	95	87
500-198668-16	3530-16-B05 (6-12)	91	101	91	89
500-198668-17	3530-16-B04 (0-6)	92	102	95	89
500-198668-18	3530-16-B04 (6-12)	91	103	95	89
500-198668-19	3530-16-B03 (0-6)	90	101	94	88
500-198668-20	3530-16-B03 (6-12)	79	106	106	95
LCS 500-597083/4	Lab Control Sample	88	92	81	92
LCS 500-597090/4	Lab Control Sample	80	91	89	101
LCSD 500-597083/5	Lab Control Sample Dup	87	93	82	91
LCSD 500-597090/5	Lab Control Sample Dup	78	93	90	100
MB 500-597083/7	Method Blank	93	98	87	90
MB 500-597090/7	Method Blank	85	102	97	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198668-1	3530-16-B01 (0-6)	93	90	90	87	64	116
500-198668-2	3530-16-B01 (6-12)	84	85	85	90	31	109
500-198668-3	3530-16-B10 (0-6)	92	94	88	87	70	126
500-198668-4	3530-16-B10 (6-12)	74	78	73	81	61	108
500-198668-5	3530-16-B02 (0-6)	97	92	93	109	68	121
500-198668-5 MS	3530-16-B02 (0-6)	95	105	87	103	64	100
500-198668-5 MSD	3530-16-B02 (0-6)	93	101	94	98	63	99
500-198668-6	3530-16-B02 (6-12)	89	87	87	83	51	118
500-198668-7	3530-16-B09 (0-6)	82	81	80	85	59	107
500-198668-8	3530-16-B09 (6-12)	87	84	84	94	60	116
500-198668-9	3530-16-B08 (0-6)	81	78	82	127	66	124

Surrogate Summary

Client: Environmental Design International, Inc. Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)		
500-198668-10	3530-16-B08 (6-12)	89	83	84	93	41	129		
500-198668-11	3530-16-B07 (0-6)	73	66	67	83	125	86		
500-198668-12	3530-16-B07 (6-12)	70	61	62	84	117	85		
500-198668-13	3530-16-B06 (0-6)	79	61	67	88	112	86		
500-198668-14	3530-16-B06 (6-12)	74	66	65	85	98	84		
500-198668-15	3530-16-B05 (0-6)	70	11 S1-	60	81	89	82		
500-198668-16	3530-16-B05 (6-12)	72	64	65	81	107	87		
500-198668-17	3530-16-B04 (0-6)	73	67	67	82	108	85		
500-198668-18	3530-16-B04 (6-12)	74	63	70	94	108	83		
500-198668-19	3530-16-B03 (0-6)	76	66	71	91	127	87		
500-198668-20	3530-16-B03 (6-12)	71	61	66	84	106	79		
LCS 500-598423/2-A	Lab Control Sample	92	96	89	90	76	97		
MB 500-598423/1-A	Method Blank	95	98	88	110	80	130		

Surrogate Legend

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

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

Lab Sample ID: MB 500-597083/7
Matrix: Solid
Analysis Batch: 597083

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/06/21 11:55	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:55	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/06/21 11:55	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:55	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/06/21 11:55	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/06/21 11:55	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/06/21 11:55	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:55	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/06/21 11:55	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:55	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:55	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:55	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/06/21 11:55	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:55	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/06/21 11:55	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:55	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:55	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:55	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/06/21 11:55	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:55	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/06/21 11:55	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:55	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:55	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:55	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/06/21 11:55	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:55	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/06/21 11:55	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:55	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:55	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:55	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:55	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/06/21 11:55	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/06/21 11:55	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:55	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/06/21 11:55	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:55	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/06/21 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*		*05/06/21 11:55*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*05/06/21 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*		*05/06/21 11:55*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*		*05/06/21 11:55*	*1*

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

Lab Sample ID: LCS 500-597083/4
Matrix: Solid
Analysis Batch: 597083

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0437		mg/Kg		87	40 - 150
Benzene	0.0500	0.0538		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0459		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0429		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138
Carbon disulfide	0.0500	0.0520		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0608		mg/Kg		122	75 - 125
Chlorobenzene	0.0500	0.0538		mg/Kg		108	50 - 150
Chloroethane	0.0500	0.0525		mg/Kg		105	75 - 125
Chloroform	0.0500	0.0514		mg/Kg		103	57 - 135
Chloromethane	0.0500	0.0571		mg/Kg		114	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0494		mg/Kg		99	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 125
1,2-Dichloroethane	0.0500	0.0459		mg/Kg		92	70 - 130
1,1-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0500	0.0540		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0570		mg/Kg		114	61 - 136
2-Hexanone	0.0500	0.0432		mg/Kg		86	48 - 146
Methylene Chloride	0.0500	0.0447		mg/Kg		89	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0442		mg/Kg		88	50 - 148
Methyl tert-butyl ether	0.0500	0.0419		mg/Kg		84	50 - 140
Styrene	0.0500	0.0546		mg/Kg		109	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0405		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0562		mg/Kg		112	70 - 124
Toluene	0.0500	0.0525		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0454		mg/Kg		91	70 - 125
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0565		mg/Kg		113	70 - 125
Vinyl acetate	0.0500	0.0397		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0520		mg/Kg		104	70 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 134*
Toluene-d8 (Surr)	*92*		*75 - 124*

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

Lab Sample ID: LCSD 500-597083/5
Matrix: Solid
Analysis Batch: 597083

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0437		mg/Kg		87	40 - 150	0	30
Benzene			0.0500	0.0548		mg/Kg		110	70 - 125	2	30
Bromodichloromethane			0.0500	0.0502		mg/Kg		100	67 - 129	2	30
Bromoform			0.0500	0.0478		mg/Kg		96	68 - 136	4	30
Bromomethane			0.0500	0.0441		mg/Kg		88	70 - 130	3	30
2-Butanone (MEK)			0.0500	0.0435		mg/Kg		87	47 - 138	5	30
Carbon disulfide			0.0500	0.0530		mg/Kg		106	70 - 129	2	30
Carbon tetrachloride			0.0500	0.0605		mg/Kg		121	75 - 125	0	30
Chlorobenzene			0.0500	0.0547		mg/Kg		109	50 - 150	2	30
Chloroethane			0.0500	0.0534		mg/Kg		107	75 - 125	2	30
Chloroform			0.0500	0.0522		mg/Kg		104	57 - 135	2	30
Chloromethane			0.0500	0.0583		mg/Kg		117	70 - 125	2	30
cis-1,2-Dichloroethene			0.0500	0.0504		mg/Kg		101	70 - 125	2	30
cis-1,3-Dichloropropene			0.0500	0.0465		mg/Kg		93	70 - 125	1	30
Dibromochloromethane			0.0500	0.0496		mg/Kg		99	69 - 125	1	30
1,1-Dichloroethane			0.0500	0.0562		mg/Kg		112	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0472		mg/Kg		94	70 - 130	3	30
1,1-Dichloroethene			0.0500	0.0511		mg/Kg		102	70 - 120	2	30
1,2-Dichloropropane			0.0500	0.0554		mg/Kg		111	70 - 125	2	30
Ethylbenzene			0.0500	0.0564		mg/Kg		113	61 - 136	1	30
2-Hexanone			0.0500	0.0439		mg/Kg		88	48 - 146	2	30
Methylene Chloride			0.0500	0.0463		mg/Kg		93	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0426		mg/Kg		85	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0433		mg/Kg		87	50 - 140	3	30
Styrene			0.0500	0.0543		mg/Kg		109	70 - 125	0	30
1,1,2,2-Tetrachloroethane			0.0500	0.0412		mg/Kg		82	70 - 122	2	30
Tetrachloroethene			0.0500	0.0554		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0534		mg/Kg		107	70 - 125	2	30
trans-1,2-Dichloroethene			0.0500	0.0538		mg/Kg		108	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0453		mg/Kg		91	70 - 125	0	30
1,1,1-Trichloroethane			0.0500	0.0567		mg/Kg		113	70 - 128	1	30
1,1,2-Trichloroethane			0.0500	0.0438		mg/Kg		88	70 - 125	2	30
Trichloroethene			0.0500	0.0575		mg/Kg		115	70 - 125	2	30
Vinyl acetate			0.0500	0.0407		mg/Kg		81	40 - 153	2	30
Vinyl chloride			0.0500	0.0533		mg/Kg		107	70 - 125	2	30
Xylenes, Total			0.100	0.103		mg/Kg		103	53 - 147	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 134*
Toluene-d8 (Surr)	*91*		*75 - 124*

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

Lab Sample ID: MB 500-597090/7
Matrix: Solid
Analysis Batch: 597090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/06/21 11:30	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/06/21 11:30	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/06/21 11:30	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/06/21 11:30	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/06/21 11:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/06/21 11:30	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/06/21 11:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/06/21 11:30	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/06/21 11:30	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/06/21 11:30	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/06/21 11:30	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/06/21 11:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/06/21 11:30	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/06/21 11:30	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/06/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*75 - 131*		*05/06/21 11:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*05/06/21 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*05/06/21 11:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*05/06/21 11:30*	*1*

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

Lab Sample ID: LCS 500-597090/4
Matrix: Solid
Analysis Batch: 597090

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0435		mg/Kg		87	40 - 150
Benzene	0.0500	0.0492		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0513		mg/Kg		103	67 - 129
Bromoform	0.0500	0.0594		mg/Kg		119	68 - 136
Bromomethane	0.0500	0.0597		mg/Kg		119	70 - 130
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0465		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0529		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0543		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 125
Dibromochloromethane	0.0500	0.0569		mg/Kg		114	69 - 125
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0486		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125
Ethylbenzene	0.0500	0.0549		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0474		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0407		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0435		mg/Kg		87	50 - 140
Styrene	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0476		mg/Kg		95	70 - 122
Tetrachloroethene	0.0500	0.0564		mg/Kg		113	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
Trichloroethene	0.0500	0.0533		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0386		mg/Kg		77	40 - 153
Vinyl chloride	0.0500	0.0488		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*91*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*101*		*75 - 124*

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

Lab Sample ID: LCSD 500-597090/5
Matrix: Solid
Analysis Batch: 597090

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0438		mg/Kg		88	40 - 150	1	30
Benzene			0.0500	0.0499		mg/Kg		100	70 - 125	1	30
Bromodichloromethane			0.0500	0.0522		mg/Kg		104	67 - 129	2	30
Bromoform			0.0500	0.0615		mg/Kg		123	68 - 136	4	30
Bromomethane			0.0500	0.0605		mg/Kg		121	70 - 130	1	30
2-Butanone (MEK)			0.0500	0.0355		mg/Kg		71	47 - 138	16	30
Carbon disulfide			0.0500	0.0473		mg/Kg		95	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0475		mg/Kg		95	75 - 125	2	30
Chlorobenzene			0.0500	0.0539		mg/Kg		108	50 - 150	2	30
Chloroethane			0.0500	0.0573		mg/Kg		115	75 - 125	5	30
Chloroform			0.0500	0.0501		mg/Kg		100	57 - 135	1	30
Chloromethane			0.0500	0.0432		mg/Kg		86	70 - 125	5	30
cis-1,2-Dichloroethene			0.0500	0.0490		mg/Kg		98	70 - 125	2	30
cis-1,3-Dichloropropene			0.0500	0.0539		mg/Kg		108	70 - 125	4	30
Dibromochloromethane			0.0500	0.0585		mg/Kg		117	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0486		mg/Kg		97	70 - 130	0	30
1,1-Dichloroethene			0.0500	0.0492		mg/Kg		98	70 - 120	4	30
1,2-Dichloropropane			0.0500	0.0489		mg/Kg		98	70 - 125	4	30
Ethylbenzene			0.0500	0.0554		mg/Kg		111	61 - 136	1	30
2-Hexanone			0.0500	0.0433		mg/Kg		87	48 - 146	4	30
Methylene Chloride			0.0500	0.0487		mg/Kg		97	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0423		mg/Kg		85	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0455		mg/Kg		91	50 - 140	4	30
Styrene			0.0500	0.0558		mg/Kg		112	70 - 125	1	30
1,1,2,2-Tetrachloroethane			0.0500	0.0470		mg/Kg		94	70 - 122	1	30
Tetrachloroethene			0.0500	0.0571		mg/Kg		114	70 - 124	1	30
Toluene			0.0500	0.0534		mg/Kg		107	70 - 125	2	30
trans-1,2-Dichloroethene			0.0500	0.0513		mg/Kg		103	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0529		mg/Kg		106	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0476		mg/Kg		95	70 - 128	3	30
1,1,2-Trichloroethane			0.0500	0.0599		mg/Kg		120	70 - 125	3	30
Trichloroethene			0.0500	0.0549		mg/Kg		110	70 - 125	3	30
Vinyl acetate			0.0500	0.0400		mg/Kg		80	40 - 153	3	30
Vinyl chloride			0.0500	0.0497		mg/Kg		99	70 - 125	2	30
Xylenes, Total			0.100	0.102		mg/Kg		102	53 - 147	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: MB 500-598423/1-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/12/21 17:38	05/13/21 10:06	1

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

Lab Sample ID: MB 500-598423/1-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/12/21 17:38	05/13/21 10:06	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/12/21 17:38	05/13/21 10:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*95*		*31 - 166*	*05/12/21 17:38*	*05/13/21 10:06*	*1*
Phenol-d5	*98*		*30 - 153*	*05/12/21 17:38*	*05/13/21 10:06*	*1*
Nitrobenzene-d5	*88*		*37 - 147*	*05/12/21 17:38*	*05/13/21 10:06*	*1*
2-Fluorobiphenyl	*110*		*43 - 145*	*05/12/21 17:38*	*05/13/21 10:06*	*1*
2,4,6-Tribromophenol	*80*		*31 - 143*	*05/12/21 17:38*	*05/13/21 10:06*	*1*
Terphenyl-d14	*130*		*42 - 157*	*05/12/21 17:38*	*05/13/21 10:06*	*1*

Lab Sample ID: LCS 500-598423/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.33		mg/Kg		99	56 - 122
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		86	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		89	61 - 110
1,2-Dichlorobenzene	1.33	1.22		mg/Kg		92	62 - 110
2-Methylphenol	1.33	1.38		mg/Kg		104	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.63		mg/Kg		122	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.24		mg/Kg		93	56 - 118
Hexachloroethane	1.33	1.14		mg/Kg		86	60 - 114
2-Chlorophenol	1.33	1.24		mg/Kg		93	64 - 110
Nitrobenzene	1.33	1.27		mg/Kg		95	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		91	60 - 112
1,2,4-Trichlorobenzene	1.33	1.34		mg/Kg		101	66 - 117
Isophorone	1.33	1.26		mg/Kg		95	55 - 110
2,4-Dimethylphenol	1.33	1.30		mg/Kg		97	60 - 110
Hexachlorobutadiene	1.33	1.37		mg/Kg		103	56 - 120
Naphthalene	1.33	1.32		mg/Kg		99	63 - 110
2,4-Dichlorophenol	1.33	1.25		mg/Kg		94	58 - 120

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

Lab Sample ID: LCS 500-598423/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.20		mg/Kg		90	30 - 150
2,4,6-Trichlorophenol	1.33	1.04		mg/Kg		78	57 - 120
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
Hexachlorocyclopentadiene	1.33	0.799		mg/Kg		60	10 - 133
2-Methylnaphthalene	1.33	1.37		mg/Kg		103	69 - 112
2-Nitroaniline	1.33	1.12		mg/Kg		84	57 - 124
2-Chloronaphthalene	1.33	1.08		mg/Kg		81	69 - 114
4-Chloro-3-methylphenol	1.33	1.29		mg/Kg		97	65 - 122
2,6-Dinitrotoluene	1.33	1.13		mg/Kg		85	70 - 123
2-Nitrophenol	1.33	1.21		mg/Kg		91	60 - 120
3-Nitroaniline	1.33	0.928		mg/Kg		70	40 - 122
Dimethyl phthalate	1.33	1.04		mg/Kg		78	69 - 116
2,4-Dinitrophenol	2.67	<0.67	*-	mg/Kg		5	10 - 100
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
2,4-Dinitrotoluene	1.33	1.17		mg/Kg		88	69 - 124
Acenaphthene	1.33	1.10		mg/Kg		82	65 - 124
Dibenzofuran	1.33	1.19		mg/Kg		90	66 - 115
4-Nitrophenol	2.67	2.24		mg/Kg		84	30 - 122
Fluorene	1.33	1.12		mg/Kg		84	62 - 120
4-Nitroaniline	1.33	0.915		mg/Kg		69	60 - 160
4-Bromophenyl phenyl ether	1.33	1.43		mg/Kg		107	68 - 118
Hexachlorobenzene	1.33	1.43		mg/Kg		107	63 - 124
Diethyl phthalate	1.33	1.09		mg/Kg		82	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.16		mg/Kg		87	62 - 119
Pentachlorophenol	2.67	1.64		mg/Kg		61	13 - 112
N-Nitrosodiphenylamine	1.33	1.35		mg/Kg		102	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.559	J	mg/Kg		21	10 - 110
Phenanthrene	1.33	1.41		mg/Kg		106	62 - 120
Anthracene	1.33	1.43		mg/Kg		107	70 - 114
Carbazole	1.33	1.60		mg/Kg		120	65 - 142
Di-n-butyl phthalate	1.33	1.34		mg/Kg		100	65 - 120
Fluoranthene	1.33	1.53		mg/Kg		115	62 - 120
Pyrene	1.33	1.33		mg/Kg		99	61 - 128
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	71 - 129
Benzo[a]anthracene	1.33	1.27		mg/Kg		95	67 - 122
Chrysene	1.33	1.30		mg/Kg		98	63 - 120
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		80	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	72 - 131
Di-n-octyl phthalate	1.33	1.33		mg/Kg		100	68 - 134
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	68 - 127
Benzo[a]pyrene	1.33	1.51		mg/Kg		113	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.51		mg/Kg		113	68 - 130
Dibenz(a,h)anthracene	1.33	1.50		mg/Kg		112	64 - 131
Benzo[g,h,i]perylene	1.33	1.45		mg/Kg		109	72 - 131
3 & 4 Methylphenol	1.33	1.17		mg/Kg		88	57 - 120

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

Lab Sample ID: LCS 500-598423/2-A
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598423

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*92*		*31 - 166*
Phenol-d5	*96*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*90*		*43 - 145*
2,4,6-Tribromophenol	*76*		*31 - 143*
Terphenyl-d14	*97*		*42 - 157*

Lab Sample ID: 500-198668-5 MS
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: 3530-16-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 598423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.19		1.53	1.62		mg/Kg	☼	106	56 - 122
Bis(2-chloroethyl)ether	<0.19		1.53	1.42		mg/Kg	☼	92	55 - 111
1,3-Dichlorobenzene	<0.19		1.53	1.29		mg/Kg	☼	84	60 - 110
1,4-Dichlorobenzene	<0.19		1.53	1.33		mg/Kg	☼	87	61 - 110
1,2-Dichlorobenzene	<0.19		1.53	1.40		mg/Kg	☼	91	62 - 110
2-Methylphenol	<0.19		1.53	1.75		mg/Kg	☼	114	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19	F1	1.53	1.94	F1	mg/Kg	☼	126	40 - 124
N-Nitrosodi-n-propylamine	<0.077		1.53	1.49		mg/Kg	☼	97	56 - 118
Hexachloroethane	<0.19		1.53	1.12		mg/Kg	☼	73	60 - 114
2-Chlorophenol	<0.19		1.53	1.51		mg/Kg	☼	98	64 - 110
Nitrobenzene	<0.038		1.53	1.42		mg/Kg	☼	93	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.53	1.35		mg/Kg	☼	88	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.53	1.48		mg/Kg	☼	96	66 - 117
Isophorone	<0.19		1.53	1.40		mg/Kg	☼	91	55 - 110
2,4-Dimethylphenol	<0.38		1.53	1.39		mg/Kg	☼	91	60 - 110
Hexachlorobutadiene	<0.19		1.53	1.43		mg/Kg	☼	93	56 - 120
Naphthalene	<0.038		1.53	1.48		mg/Kg	☼	96	63 - 110
2,4-Dichlorophenol	<0.38		1.53	1.44		mg/Kg	☼	94	58 - 120
4-Chloroaniline	<0.77		1.53	1.24		mg/Kg	☼	81	30 - 150
2,4,6-Trichlorophenol	<0.38		1.53	1.33		mg/Kg	☼	87	57 - 120
2,4,5-Trichlorophenol	<0.38		1.53	1.38		mg/Kg	☼	90	50 - 120
Hexachlorocyclopentadiene	<0.77		1.53	0.435	J	mg/Kg	☼	28	10 - 133
2-Methylnaphthalene	<0.077		1.53	1.59		mg/Kg	☼	104	69 - 112
2-Nitroaniline	<0.19		1.53	1.57		mg/Kg	☼	102	57 - 124
2-Chloronaphthalene	<0.19		1.53	1.47		mg/Kg	☼	96	69 - 114
4-Chloro-3-methylphenol	<0.38		1.53	1.38		mg/Kg	☼	90	65 - 122
2,6-Dinitrotoluene	<0.19		1.53	1.48		mg/Kg	☼	97	70 - 123
2-Nitrophenol	<0.38		1.53	1.33		mg/Kg	☼	87	60 - 120
3-Nitroaniline	<0.38		1.53	1.35		mg/Kg	☼	88	40 - 122
Dimethyl phthalate	<0.19		1.53	1.45		mg/Kg	☼	95	69 - 116
2,4-Dinitrophenol	<0.77	F1 *-	3.07	<0.77	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.038		1.53	1.52		mg/Kg	☼	99	68 - 120
2,4-Dinitrotoluene	<0.19		1.53	1.53		mg/Kg	☼	100	69 - 124
Acenaphthene	<0.038		1.53	1.50		mg/Kg	☼	98	65 - 124
Dibenzofuran	<0.19		1.53	1.64		mg/Kg	☼	107	66 - 115
4-Nitrophenol	<0.77		3.07	2.70		mg/Kg	☼	88	30 - 122

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

Lab Sample ID: 500-198668-5 MS **Client Sample ID: 3530-16-B02 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598506 **Prep Batch: 598423**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.038		1.53	1.52		mg/Kg	☼	99	62 - 120
4-Nitroaniline	<0.38		1.53	1.12		mg/Kg	☼	73	60 - 160
4-Bromophenyl phenyl ether	<0.19		1.53	1.60		mg/Kg	☼	104	68 - 118
Hexachlorobenzene	<0.077		1.53	1.65		mg/Kg	☼	108	63 - 124
Diethyl phthalate	<0.19		1.53	1.48		mg/Kg	☼	96	58 - 120
4-Chlorophenyl phenyl ether	<0.19		1.53	1.54		mg/Kg	☼	100	62 - 119
Pentachlorophenol	<0.77		3.07	0.816		mg/Kg	☼	27	13 - 112
N-Nitrosodiphenylamine	<0.19		1.53	1.58		mg/Kg	☼	103	65 - 112
4,6-Dinitro-2-methylphenol	<0.77	F1	3.07	<0.77	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	<0.038		1.53	1.68		mg/Kg	☼	109	62 - 120
Anthracene	<0.038		1.53	1.64		mg/Kg	☼	107	70 - 114
Carbazole	<0.19		1.53	1.82		mg/Kg	☼	119	65 - 142
Di-n-butyl phthalate	<0.19		1.53	1.63		mg/Kg	☼	106	65 - 120
Fluoranthene	<0.038		1.53	1.77		mg/Kg	☼	115	62 - 120
Pyrene	<0.038		1.53	1.54		mg/Kg	☼	101	61 - 128
Butyl benzyl phthalate	<0.19		1.53	1.37		mg/Kg	☼	90	71 - 129
Benzo[a]anthracene	<0.038		1.53	1.51		mg/Kg	☼	99	67 - 122
Chrysene	<0.038		1.53	1.58		mg/Kg	☼	103	63 - 120
3,3'-Dichlorobenzidine	<0.19		1.53	1.11		mg/Kg	☼	72	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19		1.53	1.47		mg/Kg	☼	96	72 - 131
Di-n-octyl phthalate	<0.19		1.53	1.58		mg/Kg	☼	103	68 - 134
Benzo[b]fluoranthene	<0.038		1.53	1.59		mg/Kg	☼	104	69 - 129
Benzo[k]fluoranthene	<0.038		1.53	1.68		mg/Kg	☼	110	68 - 127
Benzo[a]pyrene	<0.038		1.53	1.79		mg/Kg	☼	117	65 - 133
Indeno[1,2,3-cd]pyrene	<0.038		1.53	1.16		mg/Kg	☼	75	68 - 130
Dibenz(a,h)anthracene	<0.038		1.53	1.17		mg/Kg	☼	76	64 - 131
Benzo[g,h,i]perylene	<0.038	F1	1.53	1.00	F1	mg/Kg	☼	65	72 - 131
3 & 4 Methylphenol	<0.19		1.53	1.39		mg/Kg	☼	90	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*95*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*87*		*37 - 147*
2-Fluorobiphenyl	*103*		*43 - 145*
2,4,6-Tribromophenol	*64*		*31 - 143*
Terphenyl-d14	*100*		*42 - 157*

Lab Sample ID: 500-198668-5 MSD **Client Sample ID: 3530-16-B02 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598506 **Prep Batch: 598423**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.19		1.55	1.60		mg/Kg	☼	103	56 - 122	1	30
Bis(2-chloroethyl)ether	<0.19		1.55	1.42		mg/Kg	☼	92	55 - 111	0	30
1,3-Dichlorobenzene	<0.19		1.55	1.35		mg/Kg	☼	87	60 - 110	4	30
1,4-Dichlorobenzene	<0.19		1.55	1.38		mg/Kg	☼	89	61 - 110	3	30
1,2-Dichlorobenzene	<0.19		1.55	1.47		mg/Kg	☼	95	62 - 110	5	30
2-Methylphenol	<0.19		1.55	1.65		mg/Kg	☼	107	60 - 120	6	30

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

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

Lab Sample ID: 500-198668-5 MSD
Matrix: Solid
Analysis Batch: 598506

Client Sample ID: 3530-16-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 598423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	<0.19	F1	1.55	1.93		mg/Kg	☼	124	40 - 124	1	30
N-Nitrosodi-n-propylamine	<0.077		1.55	1.53		mg/Kg	☼	99	56 - 118	2	30
Hexachloroethane	<0.19		1.55	1.17		mg/Kg	☼	76	60 - 114	5	30
2-Chlorophenol	<0.19		1.55	1.46		mg/Kg	☼	94	64 - 110	3	30
Nitrobenzene	<0.038		1.55	1.56		mg/Kg	☼	101	60 - 116	9	30
Bis(2-chloroethoxy)methane	<0.19		1.55	1.47		mg/Kg	☼	95	60 - 112	9	30
1,2,4-Trichlorobenzene	<0.19		1.55	1.60		mg/Kg	☼	103	66 - 117	8	30
Isophorone	<0.19		1.55	1.51		mg/Kg	☼	97	55 - 110	7	30
2,4-Dimethylphenol	<0.38		1.55	1.52		mg/Kg	☼	98	60 - 110	9	30
Hexachlorobutadiene	<0.19		1.55	1.62		mg/Kg	☼	105	56 - 120	12	30
Naphthalene	<0.038		1.55	1.55		mg/Kg	☼	100	63 - 110	5	30
2,4-Dichlorophenol	<0.38		1.55	1.45		mg/Kg	☼	94	58 - 120	1	30
4-Chloroaniline	<0.77		1.55	1.23		mg/Kg	☼	79	30 - 150	1	30
2,4,6-Trichlorophenol	<0.38		1.55	1.32		mg/Kg	☼	85	57 - 120	1	30
2,4,5-Trichlorophenol	<0.38		1.55	1.27		mg/Kg	☼	82	50 - 120	8	30
Hexachlorocyclopentadiene	<0.77		1.55	0.468	J	mg/Kg	☼	30	10 - 133	7	30
2-Methylnaphthalene	<0.077		1.55	1.67		mg/Kg	☼	108	69 - 112	5	30
2-Nitroaniline	<0.19		1.55	1.50		mg/Kg	☼	97	57 - 124	5	30
2-Chloronaphthalene	<0.19		1.55	1.43		mg/Kg	☼	93	69 - 114	2	30
4-Chloro-3-methylphenol	<0.38		1.55	1.48		mg/Kg	☼	96	65 - 122	7	30
2,6-Dinitrotoluene	<0.19		1.55	1.47		mg/Kg	☼	95	70 - 123	1	30
2-Nitrophenol	<0.38		1.55	1.43		mg/Kg	☼	92	60 - 120	7	30
3-Nitroaniline	<0.38		1.55	1.33		mg/Kg	☼	86	40 - 122	2	30
Dimethyl phthalate	<0.19		1.55	1.39		mg/Kg	☼	90	69 - 116	4	30
2,4-Dinitrophenol	<0.77	F1 *-	3.09	<0.78	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.038		1.55	1.52		mg/Kg	☼	98	68 - 120	0	30
2,4-Dinitrotoluene	<0.19		1.55	1.51		mg/Kg	☼	98	69 - 124	1	30
Acenaphthene	<0.038		1.55	1.48		mg/Kg	☼	95	65 - 124	2	30
Dibenzofuran	<0.19		1.55	1.60		mg/Kg	☼	104	66 - 115	2	30
4-Nitrophenol	<0.77		3.09	2.51		mg/Kg	☼	81	30 - 122	7	30
Fluorene	<0.038		1.55	1.49		mg/Kg	☼	96	62 - 120	2	30
4-Nitroaniline	<0.38		1.55	1.15		mg/Kg	☼	75	60 - 160	3	30
4-Bromophenyl phenyl ether	<0.19		1.55	1.68		mg/Kg	☼	109	68 - 118	5	30
Hexachlorobenzene	<0.077		1.55	1.64		mg/Kg	☼	106	63 - 124	0	30
Diethyl phthalate	<0.19		1.55	1.47		mg/Kg	☼	95	58 - 120	1	30
4-Chlorophenyl phenyl ether	<0.19		1.55	1.52		mg/Kg	☼	98	62 - 119	1	30
Pentachlorophenol	<0.77		3.09	0.894		mg/Kg	☼	29	13 - 112	9	30
N-Nitrosodiphenylamine	<0.19		1.55	1.58		mg/Kg	☼	102	65 - 112	0	30
4,6-Dinitro-2-methylphenol	<0.77	F1	3.09	0.320	J	mg/Kg	☼	10	10 - 110	NC	30
Phenanthrene	<0.038		1.55	1.66		mg/Kg	☼	107	62 - 120	1	30
Anthracene	<0.038		1.55	1.65		mg/Kg	☼	107	70 - 114	0	30
Carbazole	<0.19		1.55	1.85		mg/Kg	☼	120	65 - 142	2	30
Di-n-butyl phthalate	<0.19		1.55	1.65		mg/Kg	☼	107	65 - 120	1	30
Fluoranthene	<0.038		1.55	1.84		mg/Kg	☼	119	62 - 120	4	30
Pyrene	<0.038		1.55	1.57		mg/Kg	☼	101	61 - 128	2	30
Butyl benzyl phthalate	<0.19		1.55	1.37		mg/Kg	☼	88	71 - 129	1	30
Benzo[a]anthracene	<0.038		1.55	1.53		mg/Kg	☼	99	67 - 122	1	30
Chrysene	<0.038		1.55	1.58		mg/Kg	☼	102	63 - 120	0	30
3,3'-Dichlorobenzidine	<0.19		1.55	1.01		mg/Kg	☼	65	35 - 128	9	30

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

Lab Sample ID: 500-198668-5 MSD — **Client Sample ID: 3530-16-B02 (0-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598506 — **Prep Batch: 598423**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	<0.19		1.55	1.46		mg/Kg	☼	94	72 - 131	1	30
Di-n-octyl phthalate	<0.19		1.55	1.59		mg/Kg	☼	103	68 - 134	1	30
Benzo[b]fluoranthene	<0.038		1.55	1.64		mg/Kg	☼	106	69 - 129	3	30
Benzo[k]fluoranthene	<0.038		1.55	1.73		mg/Kg	☼	112	68 - 127	3	30
Benzo[a]pyrene	<0.038		1.55	1.84		mg/Kg	☼	119	65 - 133	3	30
Indeno[1,2,3-cd]pyrene	<0.038		1.55	1.15		mg/Kg	☼	74	68 - 130	1	30
Dibenz(a,h)anthracene	<0.038		1.55	1.16		mg/Kg	☼	75	64 - 131	0	30
Benzo[g,h,i]perylene	<0.038	F1	1.55	0.987	F1	mg/Kg	☼	64	72 - 131	1	30
3 & 4 Methylphenol	<0.19		1.55	1.33		mg/Kg	☼	86	57 - 120	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*93*		*31 - 166*
Phenol-d5	*101*		*30 - 153*
Nitrobenzene-d5	*94*		*37 - 147*
2-Fluorobiphenyl	*98*		*43 - 145*
2,4,6-Tribromophenol	*63*		*31 - 143*
Terphenyl-d14	*99*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-599096/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 599473 — **Prep Batch: 599096**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.0934		mg/L		93	80 - 120		

Lab Sample ID: LB 500-598830/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: SPLP East**
Analysis Batch: 599473 — **Prep Batch: 599096**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:39	05/17/21 11:31	1

Lab Sample ID: 500-198668-E-20-K MS — **Client Sample ID: 500-198668-E-20-K MS**
Matrix: Solid — **Prep Type: SPLP East**
Analysis Batch: 599473 — **Prep Batch: 599096**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	<0.0075		0.100	0.0979		mg/L		98	75 - 125		

Lab Sample ID: 500-198668-E-20-J DU — **Client Sample ID: 500-198668-E-20-J DU**
Matrix: Solid — **Prep Type: SPLP East**
Analysis Batch: 599473 — **Prep Batch: 599096**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	<0.0075			<0.0075		mg/L				NC	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-597812/1-A
Matrix: Solid
Analysis Batch: 597949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Barium	<1.0		1.0	0.11	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Boron	<5.0		5.0	0.47	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Cadmium	0.0449	J	0.20	0.036	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Calcium	3.94	J	20	3.4	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Copper	<1.0		1.0	0.28	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Iron	<20		20	10	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Lead	<0.50		0.50	0.23	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Magnesium	<10		10	5.0	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Potassium	22.3	J	50	18	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Silver	<0.50		0.50	0.13	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Sodium	15.5	J	100	15	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/10/21 09:12	05/10/21 16:48	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/10/21 09:12	05/10/21 16:48	1

Lab Sample ID: LCS 500-597812/2-A
Matrix: Solid
Analysis Batch: 597949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.4		mg/Kg		93	80 - 120
Arsenic	10.0	8.65		mg/Kg		87	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Boron	100	83.8		mg/Kg		84	80 - 120
Cadmium	5.00	4.44		mg/Kg		89	80 - 120
Calcium	1000	966		mg/Kg		97	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	47.6		mg/Kg		95	80 - 120
Copper	25.0	23.6		mg/Kg		94	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Magnesium	1000	928		mg/Kg		93	80 - 120
Manganese	50.0	46.8		mg/Kg		94	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	990		mg/Kg		99	80 - 120
Selenium	10.0	8.37		mg/Kg		84	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120
Sodium	1000	988		mg/Kg		99	80 - 120
Thallium	10.0	9.27		mg/Kg		93	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120

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

Lab Sample ID: LCS 500-597812/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597949 **Prep Batch: 597812**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	48.0		mg/Kg		96	80 - 120

Lab Sample ID: 500-198668-1 MS **Client Sample ID: 3530-16-B01 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597949 **Prep Batch: 597812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.93	J F1	27.9	6.20	F1	mg/Kg	☼	19	75 - 125
Arsenic	4.5	F1	5.58	8.43	F1	mg/Kg	☼	70	75 - 125
Barium	71	F1	112	146	F1	mg/Kg	☼	67	75 - 125
Beryllium	0.72		2.79	3.02		mg/Kg	☼	82	75 - 125
Boron	2.8	F1	55.8	41.0	F1	mg/Kg	☼	68	75 - 125
Cadmium	0.17	F1 B	2.79	2.23	F1	mg/Kg	☼	74	75 - 125
Calcium	26000	F2 B	558	25800	4	mg/Kg	☼	31	75 - 125
Chromium	14		11.2	25.6		mg/Kg	☼	102	75 - 125
Cobalt	9.1		27.9	34.5		mg/Kg	☼	91	75 - 125
Copper	12		14.0	24.0		mg/Kg	☼	90	75 - 125
Iron	19000		55.8	16900	4	mg/Kg	☼	-3064	75 - 125
Lead	13	F1	5.58	15.9	F1	mg/Kg	☼	57	75 - 125
Magnesium	8000	F2	558	10000	4	mg/Kg	☼	375	75 - 125
Manganese	330	F2	27.9	280	4	mg/Kg	☼	-184	75 - 125
Nickel	20		27.9	46.1		mg/Kg	☼	93	75 - 125
Potassium	1200	F1 B	558	2450	F1	mg/Kg	☼	229	75 - 125
Selenium	0.78		5.58	5.09		mg/Kg	☼	77	75 - 125
Silver	0.31		2.79	2.61		mg/Kg	☼	82	75 - 125
Sodium	77	B	558	565		mg/Kg	☼	87	75 - 125
Thallium	<0.54		5.58	4.97		mg/Kg	☼	89	75 - 125
Vanadium	20		27.9	46.8		mg/Kg	☼	94	75 - 125
Zinc	54	F1	27.9	83.9		mg/Kg	☼	106	75 - 125

Lab Sample ID: 500-198668-1 MSD **Client Sample ID: 3530-16-B01 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597949 **Prep Batch: 597812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.93	J F1	28.0	6.75	F1	mg/Kg	☼	21	75 - 125	9	20
Arsenic	4.5	F1	5.61	8.79		mg/Kg	☼	76	75 - 125	4	20
Barium	71	F1	112	157		mg/Kg	☼	76	75 - 125	7	20
Beryllium	0.72		2.80	2.96		mg/Kg	☼	80	75 - 125	2	20
Boron	2.8	F1	56.1	38.1	F1	mg/Kg	☼	63	75 - 125	7	20
Cadmium	0.17	F1 B	2.80	2.38		mg/Kg	☼	79	75 - 125	6	20
Calcium	26000	F2 B	561	19300	4 F2	mg/Kg	☼	-1131	75 - 125	29	20
Chromium	14		11.2	26.3		mg/Kg	☼	108	75 - 125	3	20
Cobalt	9.1		28.0	35.9		mg/Kg	☼	96	75 - 125	4	20
Copper	12		14.0	23.7		mg/Kg	☼	87	75 - 125	1	20
Iron	19000		56.1	17100	4	mg/Kg	☼	-2603	75 - 125	1	20
Lead	13	F1	5.61	16.8	F1	mg/Kg	☼	73	75 - 125	5	20
Magnesium	8000	F2	561	7940	4 F2	mg/Kg	☼	-2	75 - 125	23	20
Manganese	330	F2	28.0	399	4 F2	mg/Kg	☼	244	75 - 125	35	20

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

Lab Sample ID: 500-198668-1 MSD
Matrix: Solid
Analysis Batch: 597949

Client Sample ID: 3530-16-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 597812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	20		28.0	50.8		mg/Kg	☼	109	75 - 125	10	20
Potassium	1200	F1 B	561	2230	F1	mg/Kg	☼	188	75 - 125	10	20
Selenium	0.78		5.61	5.01		mg/Kg	☼	75	75 - 125	2	20
Silver	0.31		2.80	2.55		mg/Kg	☼	80	75 - 125	2	20
Sodium	77	B	561	547		mg/Kg	☼	84	75 - 125	3	20
Thallium	<0.54		5.61	4.99		mg/Kg	☼	89	75 - 125	0	20
Vanadium	20		28.0	46.6		mg/Kg	☼	93	75 - 125	0	20
Zinc	54	F1	28.0	92.8	F1	mg/Kg	☼	138	75 - 125	10	20

Lab Sample ID: 500-198668-1 DU
Matrix: Solid
Analysis Batch: 597949

Client Sample ID: 3530-16-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 597812

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.93	J F1	0.781	J	mg/Kg	☼	17	20
Arsenic	4.5	F1	5.62	F3	mg/Kg	☼	22	20
Barium	71	F1	76.2		mg/Kg	☼	7	20
Beryllium	0.72		0.764		mg/Kg	☼	5	20
Boron	2.8	F1	1.86	J F5	mg/Kg	☼	39	20
Cadmium	0.17	F1 B	0.266	F5	mg/Kg	☼	43	20
Calcium	26000	F2 B	14900	F3	mg/Kg	☼	53	20
Chromium	14		15.9		mg/Kg	☼	11	20
Cobalt	9.1		16.3	F3	mg/Kg	☼	57	20
Copper	12		12.5		mg/Kg	☼	8	20
Iron	19000		18300		mg/Kg	☼	2	20
Lead	13	F1	11.9		mg/Kg	☼	7	20
Magnesium	8000	F2	5670	F3	mg/Kg	☼	33	20
Manganese	330	F2	473	F3	mg/Kg	☼	35	20
Nickel	20		23.1		mg/Kg	☼	14	20
Potassium	1200	F1 B	1030		mg/Kg	☼	13	20
Selenium	0.78		0.729		mg/Kg	☼	7	20
Silver	0.31		0.366		mg/Kg	☼	17	20
Sodium	77	B	63.6		mg/Kg	☼	20	20
Thallium	<0.54		0.293	J	mg/Kg	☼	NC	20
Vanadium	20		22.4		mg/Kg	☼	9	20
Zinc	54	F1	59.8		mg/Kg	☼	10	20

Lab Sample ID: LCS 500-599094/2-A
Matrix: Solid
Analysis Batch: 599506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.513		mg/L		103	80 - 120
Beryllium	0.0500	0.0450		mg/L		90	80 - 120
Boron	1.00	0.867		mg/L		87	80 - 120
Cadmium	0.0500	0.0507		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.523		mg/L		105	80 - 120
Iron	1.00	1.15		mg/L		115	80 - 120

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

Lab Sample ID: LCS 500-599094/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 599506 **Prep Batch: 599094**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0922		mg/L		92	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0538		mg/L		108	80 - 120
Zinc	0.500	0.626	*+	mg/L		125	80 - 120

Lab Sample ID: LB 500-598824/1-C **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 599506 **Prep Batch: 599094**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 10:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/16/21 07:35	05/17/21 10:53	1
Boron	<0.50		0.50	0.050	mg/L		05/16/21 07:35	05/17/21 10:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/16/21 07:35	05/17/21 10:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 10:53	1
Cobalt	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 10:53	1
Iron	<0.40		0.40	0.20	mg/L		05/16/21 07:35	05/17/21 10:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/16/21 07:35	05/17/21 10:53	1
Nickel	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 10:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/16/21 07:35	05/17/21 10:53	1
Silver	<0.025		0.025	0.010	mg/L		05/16/21 07:35	05/17/21 10:53	1
Zinc	<0.50		0.50	0.020	mg/L		05/16/21 07:35	05/17/21 10:53	1

Lab Sample ID: 500-198668-20 MS **Client Sample ID: 3530-16-B03 (6-12)**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 599506 **Prep Batch: 599094**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.54		0.500	1.07		mg/L		105	75 - 125
Beryllium	<0.0040		0.0500	0.0469		mg/L		94	75 - 125
Boron	<0.50		1.00	0.876		mg/L		88	75 - 125
Cadmium	<0.0050		0.0500	0.0505		mg/L		101	75 - 125
Chromium	<0.025		0.200	0.193		mg/L		97	75 - 125
Cobalt	<0.025		0.500	0.530		mg/L		106	75 - 125
Iron	<0.40		1.00	1.02		mg/L		102	75 - 125
Lead	<0.0075		0.100	0.0947		mg/L		95	75 - 125
Nickel	0.034		0.500	0.561		mg/L		105	75 - 125
Selenium	<0.050		0.100	0.110		mg/L		110	75 - 125
Silver	<0.025		0.0500	0.0538		mg/L		108	75 - 125
Zinc	0.029	J *+	0.500	0.600		mg/L		114	75 - 125

Lab Sample ID: 500-198668-20 DU **Client Sample ID: 3530-16-B03 (6-12)**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 599506 **Prep Batch: 599094**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.54		0.562		mg/L		4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20

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

Lab Sample ID: 500-198668-20 DU — **Client Sample ID: 3530-16-B03 (6-12)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 599506 — **Prep Batch: 599094**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	<0.50		<0.50		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Nickel	0.034		0.0336		mg/L		0.4	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.029	J *+	0.0318	J *+	mg/L		9	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-599094/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 599518 — **Prep Batch: 599094**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LB 500-598824/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 599518 — **Prep Batch: 599094**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/16/21 07:35	05/17/21 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/16/21 07:35	05/17/21 17:52	1

Lab Sample ID: 500-198668-20 MS — **Client Sample ID: 3530-16-B03 (6-12)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 599518 — **Prep Batch: 599094**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.488		mg/L		98	75 - 125
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125

Lab Sample ID: 500-198668-20 DU — **Client Sample ID: 3530-16-B03 (6-12)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 599518 — **Prep Batch: 599094**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-598956/12-A
Matrix: Solid
Analysis Batch: 599256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:17	1

Lab Sample ID: LCS 500-598956/14-A
Matrix: Solid
Analysis Batch: 599256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00197		mg/L		98	80 - 120		

Lab Sample ID: LB 500-598824/1-B
Matrix: Solid
Analysis Batch: 599256

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598956

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/14/21 13:20	05/17/21 09:23	1

Lab Sample ID: 500-198668-10 MS
Matrix: Solid
Analysis Batch: 599256

Client Sample ID: 3530-16-B08 (6-12)
Prep Type: TCLP
Prep Batch: 598956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00020		0.00100	0.000954		mg/L		95	75 - 125		

Lab Sample ID: 500-198668-10 DU
Matrix: Solid
Analysis Batch: 599256

Client Sample ID: 3530-16-B08 (6-12)
Prep Type: TCLP
Prep Batch: 598956

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	<0.00020			<0.00020		mg/L				NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-598645/12-A
Matrix: Solid
Analysis Batch: 598885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/13/21 13:40	05/14/21 06:45	1

Lab Sample ID: LCS 500-598645/13-A
Matrix: Solid
Analysis Batch: 598885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598645

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.169		mg/Kg		101	80 - 120		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-198668-10 MS — **Client Sample ID: 3530-16-B08 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598885 — **Prep Batch: 598645**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.016	J	0.0918	0.125		mg/Kg	☼	119	75 - 125

Lab Sample ID: 500-198668-10 MSD — **Client Sample ID: 3530-16-B08 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598885 — **Prep Batch: 598645**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.016	J	0.0916	0.124		mg/Kg	☼	118	75 - 125	1	20

Lab Sample ID: 500-198668-10 DU — **Client Sample ID: 3530-16-B08 (6-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598885 — **Prep Batch: 598645**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.016	J	0.0253	F5	mg/Kg	☼	46	20

Method: 9045D - pH

Lab Sample ID: 500-198668-5 DU — **Client Sample ID: 3530-16-B02 (0-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 597710

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.4		7.5		SU		1	

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (0-6)
Date Collected: 05/04/21 13:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598830	05/13/21 16:56	CMS	TAL CHI
SPLP East	Prep	3010A			599096	05/16/21 07:39	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599473	05/17/21 11:43	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:01	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 17:54	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:32	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B01 (0-6)
Date Collected: 05/04/21 13:45
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-1
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 12:21	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 12:37	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 16:54	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:49	MJG	TAL CHI

Client Sample ID: 3530-16-B01 (6-12)
Date Collected: 05/04/21 13:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:04	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 17:55	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B01 (6-12)

Date Collected: 05/04/21 13:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-2

Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 12:47	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 16:10	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:10	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:51	MJG	TAL CHI

Client Sample ID: 3530-16-B10 (0-6)

Date Collected: 05/04/21 14:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598830	05/13/21 16:56	CMS	TAL CHI
SPLP East	Prep	3010A			599096	05/16/21 07:39	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599473	05/17/21 11:53	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:08	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 17:57	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:32	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:37	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B10 (0-6)

Date Collected: 05/04/21 14:05
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-3

Matrix: Solid
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 13:13	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 12:59	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:13	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:53	MJG	TAL CHI

Client Sample ID: 3530-16-B10 (6-12) Lab Sample ID: 500-198668-4

Date Collected: 05/04/21 14:10 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598830	05/13/21 16:56	CMS	TAL CHI
SPLP East	Prep	3010A			599096	05/16/21 07:39	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599473	05/17/21 11:56	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:19	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 17:58	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:42	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B10 (6-12) Lab Sample ID: 500-198668-4

Date Collected: 05/04/21 14:10 **Matrix: Solid**
Date Received: 05/05/21 13:30 **Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 13:39	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 13:20	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:16	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 15:54	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:54	MJG	TAL CHI

Client Sample ID: 3530-16-B02 (0-6) Lab Sample ID: 500-198668-5

Date Collected: 05/04/21 14:20 **Matrix: Solid**
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:22	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 17:59	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:36	MJG	TAL CHI

Client Sample ID: 3530-16-B02 (0-6)
Lab Sample ID: 500-198668-5

Date Collected: 05/04/21 14:20
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	597710	05/07/21 19:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B02 (0-6)
Lab Sample ID: 500-198668-5

Date Collected: 05/04/21 14:20
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 14:04	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 13:41	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:26	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:57	MJG	TAL CHI

Client Sample ID: 3530-16-B02 (6-12)
Lab Sample ID: 500-198668-6

Date Collected: 05/04/21 14:30
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:26	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:00	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B02 (6-12)
Lab Sample ID: 500-198668-6

Date Collected: 05/04/21 14:30
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 14:30	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 14:02	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:29	EEN	TAL CHI

Client Sample ID: 3530-16-B02 (6-12)

Lab Sample ID: 500-198668-6

Date Collected: 05/04/21 14:30

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 06:59	MJG	TAL CHI

Client Sample ID: 3530-16-B09 (0-6)

Lab Sample ID: 500-198668-7

Date Collected: 05/04/21 14:45

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			598830	05/13/21 16:56	CMS	TAL CHI
SPLP East	Prep	3010A			599096	05/16/21 07:39	LMN	TAL CHI
SPLP East	Analysis	6010B		1	599473	05/17/21 12:06	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:30	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:01	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:52	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B09 (0-6)

Lab Sample ID: 500-198668-7

Date Collected: 05/04/21 14:45

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 14:56	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 14:45	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:32	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 15:57	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:01	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B09 (6-12)

Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:33	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:02	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:54	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B09 (6-12)

Date Collected: 05/04/21 14:55
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-8

Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 15:22	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 15:06	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:35	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:06	MJG	TAL CHI

Client Sample ID: 3530-16-B08 (0-6)

Date Collected: 05/04/21 15:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:37	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:05	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:49	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:56	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B08 (0-6)

Date Collected: 05/04/21 15:10
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-9

Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 15:48	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 17:34	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:38	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		5	598227	05/11/21 16:00	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:08	MJG	TAL CHI

Client Sample ID: 3530-16-B08 (6-12)

Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:41	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:06	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:51	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:58	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B08 (6-12)

Date Collected: 05/04/21 15:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-10

Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 16:14	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598506	05/13/21 15:48	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:41	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:10	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B07 (0-6)

Lab Sample ID: 500-198668-11

Date Collected: 05/04/21 15:30
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:44	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:08	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:00	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B07 (0-6)

Lab Sample ID: 500-198668-11

Date Collected: 05/04/21 15:30
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 16:40	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 12:27	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:45	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:03	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:18	MJG	TAL CHI

Client Sample ID: 3530-16-B07 (6-12)

Lab Sample ID: 500-198668-12

Date Collected: 05/04/21 15:40
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:48	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:09	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 09:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:03	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B07 (6-12)

Lab Sample ID: 500-198668-12

Date Collected: 05/04/21 15:40
Date Received: 05/05/21 13:30

Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 17:06	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 12:49	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:48	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:07	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:20	MJG	TAL CHI

Client Sample ID: 3530-16-B06 (0-6)

Lab Sample ID: 500-198668-13

Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 11:51	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:10	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:08	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B06 (0-6)

Lab Sample ID: 500-198668-13

Date Collected: 05/04/21 15:50
Date Received: 05/05/21 13:30

Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 17:32	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 13:10	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:51	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:10	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:22	MJG	TAL CHI

Client Sample ID: 3530-16-B06 (6-12)

Lab Sample ID: 500-198668-14

Date Collected: 05/04/21 16:00

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:02	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:11	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:10	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B06 (6-12)

Lab Sample ID: 500-198668-14

Date Collected: 05/04/21 16:00

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 17:58	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 13:32	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 17:54	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:24	MJG	TAL CHI

Client Sample ID: 3530-16-B05 (0-6)

Lab Sample ID: 500-198668-15

Date Collected: 05/04/21 16:05

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:06	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:12	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:13	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B05 (0-6)

Lab Sample ID: 500-198668-15
Date Collected: 05/04/21 16:05
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 18:24	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 16:01	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:07	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:13	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:30	MJG	TAL CHI

Client Sample ID: 3530-16-B05 (6-12)

Lab Sample ID: 500-198668-16
Date Collected: 05/04/21 16:15
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:09	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:13	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:15	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B05 (6-12)

Lab Sample ID: 500-198668-16
Date Collected: 05/04/21 16:15
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 18:50	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 13:53	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:10	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:16	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:31	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B04 (0-6)

Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:13	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:14	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:14	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:18	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B04 (0-6)

Date Collected: 05/04/21 16:20
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-17

Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 19:16	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 14:14	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:13	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:25	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:33	MJG	TAL CHI

Client Sample ID: 3530-16-B04 (6-12)

Date Collected: 05/04/21 16:30
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198668-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:17	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:15	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B04 (6-12)

Lab Sample ID: 500-198668-18

Date Collected: 05/04/21 16:30
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 19:41	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 14:36	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:16	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:35	MJG	TAL CHI

Client Sample ID: 3530-16-B03 (0-6)

Lab Sample ID: 500-198668-19

Date Collected: 05/04/21 16:40
Matrix: Solid
Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:20	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:19	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B03 (0-6)

Lab Sample ID: 500-198668-19

Date Collected: 05/04/21 16:40
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597083	05/06/21 20:07	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 14:57	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:19	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:37	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198668-1

Client Sample ID: 3530-16-B03 (6-12)

Lab Sample ID: 500-198668-20

Date Collected: 05/04/21 16:50

Matrix: Solid

Date Received: 05/05/21 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6010B		1	599506	05/17/21 12:24	JJB	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	3010A			599094	05/16/21 07:35	LMN	TAL CHI
TCLP	Analysis	6020A		1	599518	05/17/21 18:20	FXG	TAL CHI
TCLP	Leach	1311			598824	05/13/21 16:56	CMS	TAL CHI
TCLP	Prep	7470A			598956	05/14/21 13:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	599256	05/17/21 10:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 20:25	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597496	05/07/21 14:25	LWN	TAL CHI

Client Sample ID: 3530-16-B03 (6-12)

Lab Sample ID: 500-198668-20

Date Collected: 05/04/21 16:50

Matrix: Solid

Date Received: 05/05/21 13:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597057	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 19:17	PMF	TAL CHI
Total/NA	Prep	3541			598423	05/12/21 17:38	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598520	05/13/21 15:18	AJD	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		1	597949	05/10/21 18:23	EEN	TAL CHI
Total/NA	Prep	3050B			597812	05/10/21 09:12	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598227	05/11/21 16:32	EEN	TAL CHI
Total/NA	Prep	7471B			598645	05/13/21 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598885	05/14/21 07:39	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198668-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: ~~1 of 1~~ 1 of 2
Company: Environmental Design International inc	PWSID:			Job #: 500-198668

Address	Due Date Requested	Preservation Codes
33 West Monroe Street Suite 1825	TAT Requested (days): Standard	A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
City: Chicago	Compliance Project: Δ Yes Δ No	
State, Zip: IL 60603-5326	PO #: 945 033	
Phone: 312-345-1400	WO #: 172-027 - WO 93	
Email: mfischer@envdesignı com	Lab Project #:	
Project Name: IDOT - 172-027 - WO 93		
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198668 COC

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
				Preservation Code											
1	3530-16-B01 (0-6)	5-4-21	1345	G	S			X	X	X	X	X	X		
2	-B01 (6-12)		1355												
3	-B10 (0-6)		1405												
4	-B10 (6-12)		1410												
5	-B02 (0-6)		1420												
6	-B02 (6-12)		1430												
7	-B09 (0-6)		1445												
8	-B09 (6-12)		1455												
9	-B08 (0-6)		1510												
10	-B08 (6-12)		1520												
11	-B07 (0-6)		1530												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	5-5-21 1330	EDI	[signature]	5/5/21 1330	EA CHI
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		~~5.3-5.1~~ SS 5/5/21 4.5→4.3, 5.9→5.7, 4.9→4.7

Ver: 01/16/2019

5/21/2021

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: ~~1 of 1~~ 2 of 2
Company: Environmental Design International Inc.	PWSID:			Job #: 500-198668

Address	Due Date Requested	Analysis Requested
33 West Monroe Street Suite 1825		
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesign1 com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #:	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
				Preservation Code:											
12	3530-16-B07 (6-12)	5-4-21	1540	G	S			X	X	X	X	X	X		
13	-B06 (0-6)		1550												
14	-B06 (6-12)		1600												
15	-B05 (0-6)		1605												
16	-B05 (6-12)		1615												
17	-B04 (0-6)		1620												
18	-B04 (6-12)		1630												
19	-B03 (0-6)		1640												
20	-B03 (6-12)		1650												

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	MXD	5-5-21 1330	EDI	Shawn Scott	5/5/21 1330	EA CHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198668-1

Login Number: 198668 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3,5.7,4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198106-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 4:38:50 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Job ID: 500-198106-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198106-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-18-B01 (0-3) (500-198106-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

Client Sample ID: 3530-18-B01 (0-3)

Lab Sample ID: 500-198106-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.022	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.072	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.047	J	0.20	0.046	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0085	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.024	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.042		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.63	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	130	^6+	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	3700	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	170		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1000	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.1		0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.28		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198106-1	3530-18-B01 (0-3)	Solid	04/22/21 09:05	04/23/21 12:00	

Client Sample ID: 3530-18-B01 (0-3)
Date Collected: 04/22/21 09:05
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198106-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*04/23/21 17:32*	*04/27/21 12:24*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*04/23/21 17:32*	*04/27/21 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*04/23/21 17:32*	*04/27/21 12:24*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*04/23/21 17:32*	*04/27/21 12:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

Client Sample ID: 3530-18-B01 (0-3)
Date Collected: 04/22/21 09:05
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198106-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Naphthalene	**0.022**	**J**	0.039	0.0061	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Methylnaphthalene	**0.072**	**J**	0.080	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
3-Nitroaniline	<0.39	*+	0.39	0.12	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Dibenzofuran	**0.047**	**J**	0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
N-Nitrosodiphenylamine	<0.20	*+	0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Phenanthrene	**0.12**		0.039	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Anthracene	**0.0085**	**J**	0.039	0.0066	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Carbazole	<0.20	*+	0.20	0.099	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Fluoranthene	**0.024**	**J**	0.039	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Pyrene	**0.042**		0.039	0.0078	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Benzo[a]anthracene	**0.025**	**J**	0.039	0.0053	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1

Client Sample ID: 3530-18-B01 (0-3)
Date Collected: 04/22/21 09:05
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198106-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.030**	**J**	0.039	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
3,3'-Dichlorobenzidine	<0.20	*+	0.20	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Benzo[b]fluoranthene	**0.020**	**J**	0.039	0.0085	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Benzo[a]pyrene	**0.021**	**J**	0.039	0.0076	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*80*		*31 - 166*	*05/02/21 14:25*	*05/05/21 18:17*	*1*
Phenol-d5	*80*		*30 - 153*	*05/02/21 14:25*	*05/05/21 18:17*	*1*
Nitrobenzene-d5	*64*		*37 - 147*	*05/02/21 14:25*	*05/05/21 18:17*	*1*
2-Fluorobiphenyl	*78*		*43 - 145*	*05/02/21 14:25*	*05/05/21 18:17*	*1*
2,4,6-Tribromophenol	*49*		*31 - 143*	*05/02/21 14:25*	*05/05/21 18:17*	*1*
Terphenyl-d14	*75*		*42 - 157*	*05/02/21 14:25*	*05/05/21 18:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.63**	**J**	1.1	0.22	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Arsenic	**8.4**		0.57	0.20	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Barium	**130**	**^6+**	0.57	0.065	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Beryllium	**0.74**		0.23	0.053	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Boron	**11**		2.9	0.27	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Cadmium	**0.23**	**B**	0.11	0.021	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Calcium	**3700**	**B**	11	1.9	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Chromium	**13**		0.57	0.28	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Cobalt	**6.4**		0.29	0.075	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Copper	**15**		0.57	0.16	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Iron	**20000**		11	5.9	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Lead	**170**		0.29	0.13	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Magnesium	**1000**	**B**	5.7	2.8	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Manganese	**520**		0.57	0.083	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Nickel	**12**		0.57	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Potassium	**1000**		29	10	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Selenium	**1.1**		0.57	0.34	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Silver	**0.41**		0.29	0.074	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Sodium	**170**		57	8.4	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Thallium	**0.28**	**J**	0.57	0.28	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Vanadium	**26**		0.29	0.067	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1
Zinc	**76**		1.1	0.50	mg/Kg	☼	05/02/21 10:26	05/03/21 12:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.38**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:42	1
Boron	**0.072**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:42	1

Client Sample ID: 3530-18-B01 (0-3)
Date Collected: 04/22/21 09:05
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198106-1
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:42	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:42	1
Iron	**0.30**	**J**	0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:42	1
Lead	**0.021**		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:42	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:52	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:42	1
Zinc	**0.064**	**J**	0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.21**		0.0075	0.0075	mg/L		05/03/21 19:19	05/04/21 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.018	0.0058	mg/Kg	☼	05/03/21 14:30	05/04/21 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			04/28/21 20:44	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198106-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	8270D	596304
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 596378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	SPLP East	Solid	1312	
LB 500-596378/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 596426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	7471B	
MB 500-596426/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596426/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	6010B	596298
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298

Metals (Continued)

Analysis Batch: 596470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	3010A	596362
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	SPLP East	Solid	3010A	596378
LB 500-596378/1-B	Method Blank	SPLP East	Solid	3010A	596378
LCS 500-596534/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	7471B	596426
MB 500-596426/12-A	Method Blank	Total/NA	Solid	7471B	596426
LCS 500-596426/13-A	Lab Control Sample	Total/NA	Solid	7471B	596426

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	SPLP East	Solid	6010B	596534
LB 500-596378/1-B	Method Blank	SPLP East	Solid	6010B	596534
LCS 500-596534/2-A	Lab Control Sample	Total/NA	Solid	6010B	596534

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

Metals

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 595785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198106-1	3530-18-B01 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198106-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198106-1	3530-18-B01 (0-3)	84	102	97	95
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198106-1	3530-18-B01 (0-3)	80	80	64	78	49	75
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596895 **Prep Batch: 596304**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-596534/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596709 **Prep Batch: 596534**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.0956		mg/L		96	80 - 120		

Lab Sample ID: LB 500-596378/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: SPLP East**
Analysis Batch: 596709 **Prep Batch: 596534**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:19	05/04/21 11:23	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596470 **Prep Batch: 596298**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

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

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

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

Lab Sample ID: LCS 500-596533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596986 — **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596873 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596986 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596703 — **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596703 — **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Lab Sample ID: LB 500-596362/2-B
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596661

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596426/12-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 07:03	1

Lab Sample ID: LCS 500-596426/13-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Lab Chronicle

Client: Environmental Design International, Inc. Job ID: 500-198106-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-18-B01 (0-3) Lab Sample ID: 500-198106-1

Date Collected: 04/22/21 09:05 **Matrix: Solid**
Date Received: 04/23/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			596378	04/30/21 14:30	OAJ	TAL CHI
SPLP East	Prep	3010A			596534	05/03/21 19:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	596709	05/04/21 11:52	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 11:52	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:42	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:45	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:17	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595785	04/29/21 07:55	LWN	TAL CHI

Client Sample ID: 3530-18-B01 (0-3) Lab Sample ID: 500-198106-1

Date Collected: 04/22/21 09:05 **Matrix: Solid**
Date Received: 04/23/21 12:00 **Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 12:24	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 18:17	AJD	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 12:30	JJB	TAL CHI
Total/NA	Prep	7471B			596426	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:03	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198106-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International inc	PWSID:			Job #: 500-198106

Address: 33 West Monroe Street, Suite 1825	Due Date Requested:	Analysis Requested	Preservation Codes
City: Chicago	TAT Requested (days): Standard		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No		
Phone: 312-345-1400	PO #: 945 033		
Email: mfischer@envdesigni com	WO #: 172-027 - WO 93		
Project Name: IDOT - 172-027 - WO 93	Lab Project #:		
Site: FAP 42 / FAP 841 (IL 127 / IL 154)			

500-198106 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
1 3530-18-B01 (0-3)	4-22-21	0905	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4-23-21 / 1200	EDI	[signature]	4/23/21 1200	ETA-CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.3 -7.3.5

Ver 01 16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198106-1

Login Number: 198106
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198107-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 5:02:11 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Job ID: 500-198107-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198107-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-29-B01 (0-2) (500-198107-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Client Sample ID: 3530-29-B01 (0-2)

Lab Sample ID: 500-198107-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0056	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.8		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	80	^6+	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.6	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.038	J B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	2500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.93		0.40	0.20	mg/L	1		6010B	TCLP
Mercury	0.041		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198107-1	3530-29-B01 (0-2)	Solid	04/22/21 09:45	04/23/21 12:00	

Client: Environmental Design International, Inc.
Job ID: 500-198107-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-29-B01 (0-2)
Lab Sample ID: 500-198107-1
Date Collected: 04/22/21 09:45
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	04/23/21 17:32	04/27/21 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*04/23/21 17:32*	*04/27/21 12:51*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*04/23/21 17:32*	*04/27/21 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*04/23/21 17:32*	*04/27/21 12:51*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*04/23/21 17:32*	*04/27/21 12:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1

Client: Environmental Design International, Inc.
Job ID: 500-198107-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-29-B01 (0-2)
Lab Sample ID: 500-198107-1
Date Collected: 04/22/21 09:45
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
3-Nitroaniline	<0.39	*+	0.39	0.12	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
N-Nitrosodiphenylamine	<0.20	*+	0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Phenanthrene	**0.0056**	**J**	0.039	0.0055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Carbazole	<0.20	*+	0.20	0.099	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1

Client Sample ID: 3530-29-B01 (0-2)
Date Collected: 04/22/21 09:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198107-1
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
3,3'-Dichlorobenzidine	<0.20	*+	0.20	0.055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/02/21 14:25	05/06/21 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*85*		*31 - 166*	*05/02/21 14:25*	*05/06/21 03:12*	*1*
Phenol-d5	*86*		*30 - 153*	*05/02/21 14:25*	*05/06/21 03:12*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*05/02/21 14:25*	*05/06/21 03:12*	*1*
2-Fluorobiphenyl	*72*		*43 - 145*	*05/02/21 14:25*	*05/06/21 03:12*	*1*
2,4,6-Tribromophenol	*61*		*31 - 143*	*05/02/21 14:25*	*05/06/21 03:12*	*1*
Terphenyl-d14	*109*		*42 - 157*	*05/02/21 14:25*	*05/06/21 03:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.54**	**J**	1.1	0.22	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Arsenic	**9.8**		0.57	0.20	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Barium	**80**	**^6+**	0.57	0.065	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Beryllium	**0.60**		0.23	0.053	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Boron	**1.6**	**J**	2.9	0.27	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Cadmium	**0.038**	**J B**	0.11	0.021	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Calcium	**2500**	**B**	11	1.9	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Chromium	**16**		0.57	0.28	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Cobalt	**6.4**		0.29	0.075	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Copper	**12**		0.57	0.16	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Iron	**21000**		11	5.9	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Lead	**20**		0.29	0.13	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Magnesium	**2100**	**B**	5.7	2.8	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Manganese	**590**		0.57	0.083	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Nickel	**11**		0.57	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Potassium	**1200**		29	10	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Selenium	**0.50**	**J**	0.57	0.34	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Silver	**0.31**		0.29	0.074	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Sodium	**1600**		57	8.4	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Vanadium	**28**		0.29	0.067	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1
Zinc	**53**		1.1	0.50	mg/Kg	☼	05/02/21 10:26	05/03/21 13:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.21**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:45	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:45	1

Client Sample ID: 3530-29-B01 (0-2) **Lab Sample ID: 500-198107-1**
Date Collected: 04/22/21 09:45 **Matrix: Solid**
Date Received: 04/23/21 12:00 **Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:45	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:45	1
Iron	**0.93**		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:55	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:45	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.020	0.0066	mg/Kg	☼	05/03/21 14:30	05/04/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			04/28/21 20:47	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198107-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Analysis Batch: 597003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	6010B	596298
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Metals

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	3010A	596362
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	7471B	596427
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	596427
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	596427

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

General Chemistry

Analysis Batch: 595785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198107-1	3530-29-B01 (0-2)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198107-1	3530-29-B01 (0-2)	84	100	95	98
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198107-1	3530-29-B01 (0-2)	85	86	74	72	61	109
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1

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

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-596362/2-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596427/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 08:04	1

Lab Sample ID: LCS 500-596427/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198107-1

Client Sample ID: 3530-29-B01 (0-2)

Date Collected: 04/22/21 09:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198107-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 11:55	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:45	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:46	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595785	04/29/21 07:55	LWN	TAL CHI

Client Sample ID: 3530-29-B01 (0-2)

Date Collected: 04/22/21 09:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198107-1

Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 12:51	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	597003	05/06/21 03:12	SS	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 13:29	JJB	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:24	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198107-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc	PWSID:			Job #: 500-198107
Address: 33 West Monroe Street Suite 1825	Due Date Requested:			
City: Chicago	TAT Requested (days): Standard			
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No			
Phone: 312-345-1400	PO #: 945 033			
Email: mfischer@envdesignı.com	WO #: 172-027 - WO 93			
Project Name: IDOT - 172-027 - WO 93	Lab Project #:			
Site: FAP 42 / FAP 841 (IL 127 / IL 154)				

500-198107 COC

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
1 3530-29-B01 (0-2)	4-22-21	0945	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: MFA	4-23-21 / 1200	EDI	Received by: Shirl Scott	4/23/21 1200	EA-ORL
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		4.3-73.5

Ver 01 16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198107-1

Login Number: 198107 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198108-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 4:40:20 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

Job ID: 500-198108-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198108-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-30-B01 (0-2) (500-198108-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

Client Sample ID: 3530-30-B01 (0-2)

Lab Sample ID: 500-198108-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.61	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	51	^6+	0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	1.4	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.023	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	3000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.38		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.50	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.033		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198108-1	3530-30-B01 (0-2)	Solid	04/22/21 09:25	04/23/21 12:00	

Client: Environmental Design International, Inc.
Job ID: 500-198108-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-30-B01 (0-2)
Lab Sample ID: 500-198108-1
Date Collected: 04/22/21 09:25
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*04/23/21 17:32*	*04/27/21 13:18*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*04/23/21 17:32*	*04/27/21 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*04/23/21 17:32*	*04/27/21 13:18*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*04/23/21 17:32*	*04/27/21 13:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1

Client: Environmental Design International, Inc.
Job ID: 500-198108-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-30-B01 (0-2)
Lab Sample ID: 500-198108-1
Date Collected: 04/22/21 09:25
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
3-Nitroaniline	<0.40	*+	0.40	0.13	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
N-Nitrosodiphenylamine	<0.20	*+	0.20	0.048	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Carbazole	<0.20	*+	0.20	0.10	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1

Client Sample ID: 3530-30-B01 (0-2)
Date Collected: 04/22/21 09:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198108-1
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
3,3'-Dichlorobenzidine	<0.20	*+	0.20	0.057	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/02/21 14:25	05/05/21 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*87*		*31 - 166*	*05/02/21 14:25*	*05/05/21 16:07*	*1*
Phenol-d5	*91*		*30 - 153*	*05/02/21 14:25*	*05/05/21 16:07*	*1*
Nitrobenzene-d5	*65*		*37 - 147*	*05/02/21 14:25*	*05/05/21 16:07*	*1*
2-Fluorobiphenyl	*73*		*43 - 145*	*05/02/21 14:25*	*05/05/21 16:07*	*1*
2,4,6-Tribromophenol	*55*		*31 - 143*	*05/02/21 14:25*	*05/05/21 16:07*	*1*
Terphenyl-d14	*79*		*42 - 157*	*05/02/21 14:25*	*05/05/21 16:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.61**	**J**	1.2	0.23	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Arsenic	**9.0**		0.59	0.20	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Barium	**51**	**^6+**	0.59	0.067	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Beryllium	**0.57**		0.23	0.055	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Boron	**1.4**	**J**	2.9	0.27	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Cadmium	**0.023**	**J B**	0.12	0.021	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Calcium	**3000**	**B**	12	2.0	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Chromium	**16**		0.59	0.29	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Cobalt	**4.9**		0.29	0.077	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Copper	**12**		0.59	0.16	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Iron	**19000**		12	6.1	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Lead	**16**		0.29	0.14	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Magnesium	**2000**	**B**	5.9	2.9	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Manganese	**290**		0.59	0.085	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Nickel	**10**		0.59	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Potassium	**1100**		29	10	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Silver	**0.38**		0.29	0.076	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Sodium	**1300**		59	8.7	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Thallium	**0.50**	**J**	0.59	0.29	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Vanadium	**30**		0.29	0.069	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1
Zinc	**45**		1.2	0.51	mg/Kg	☼	05/02/21 10:26	05/03/21 13:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.18**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:49	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:49	1

Client Sample ID: 3530-30-B01 (0-2)
Date Collected: 04/22/21 09:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198108-1
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:49	1
Chromium	**0.014**	**J**	0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:49	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:49	1
Iron	**0.32**	**J**	0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:49	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:49	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:59	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:49	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.020	0.0066	mg/Kg	☼	05/03/21 14:30	05/04/21 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			04/28/21 20:50	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198108-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	8270D	596304
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	6010B	596298
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	3010A	596362

Metals (Continued)

Prep Batch: 596533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	7471B	596427
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	596427
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	596427

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

General Chemistry

Analysis Batch: 595785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198108-1	3530-30-B01 (0-2)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198108-1	3530-30-B01 (0-2)	84	102	99	96
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198108-1	3530-30-B01 (0-2)	87	91	65	73	55	79
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1

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

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596703

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-596362/2-B
Matrix: Solid
Analysis Batch: 596952

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596661

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596427/12-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 08:04	1

Lab Sample ID: LCS 500-596427/13-A
Matrix: Solid
Analysis Batch: 596682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198108-1

Client Sample ID: 3530-30-B01 (0-2)

Date Collected: 04/22/21 09:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198108-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 11:59	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:49	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:47	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595785	04/29/21 07:55	LWN	TAL CHI

Client Sample ID: 3530-30-B01 (0-2)

Date Collected: 04/22/21 09:25
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198108-1

Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 13:18	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	596895	05/05/21 16:07	AJD	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 13:32	JJB	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:26	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198108-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc.	PWSID:			Job #: 500-198108

Address: 33 West Monroe Street Suite 1825	Due Date Requested:	Analysis Requested
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesignı com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #:	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198108 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code											
(3530-30-B01 (0-2)	4-22-21	0925	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	4-23-21 1200	EDI	[signature]	4/23/21 1200	ESACHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.3 → 3.5

Ver 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198108-1

Login Number: 198108 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198578-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/21/2021 4:24:09 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Job ID: 500-198578-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198578-1

Receipt
The samples were received on 5/4/2021 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
Method 8260B: The laboratory control sample duplicate (LCSD) for 596845 recovered outside control limits for Carbon tetrachloride. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.3530-31-B01 (0-5) (500-198578-1), 3530-31-B01 (0-5)D (500-198578-2), 3530-31-B01 (5-10) (500-198578-3), 3530-31-B01 (10-15) (500-198578-4), 3530-31-B02 (0-6) (500-198578-5) and 3530-31-B02 (6-12) (500-198578-6)

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

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-597931 and analytical batch 500-598015 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: (MB 500-597931/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals
Method 6010B: The method blank for preparation batch 500-597813 and analytical batch 500-598495 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The continuing calibration blank (CCB) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3530-31-B01 (0-5) (500-198578-1), 3530-31-B01 (0-5)D (500-198578-2), 3530-31-B01 (5-10) (500-198578-3), 3530-31-B01 (10-15) (500-198578-4), 3530-31-B02 (0-6) (500-198578-5) and 3530-31-B02 (6-12) (500-198578-6) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6020A: The initial calibration verification (ICV) result for batch 500-598615 was above the upper control limit for Antimony. Sample results were non-detects, and have been reported as qualified data.

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)

Lab Sample ID: 500-198578-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.77	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	900		1.2	0.14	mg/Kg	2	☼	6010B	Total/NA
Beryllium	0.71		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	2.6	J	3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Calcium	910	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.62	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	18		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3100	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	250	B	0.62	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		31	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	180	B	62	9.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	68	B	1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.050	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	5.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-31-B01 (0-5)D

Lab Sample ID: 500-198578-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.80	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	370		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	2.5	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	850	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.60	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	17		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	280	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.44		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	160	B	60	8.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	67	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-31-B01 (0-5)D (Continued) Lab Sample ID: 500-198578-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.042	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0075	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	5.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-31-B01 (5-10) Lab Sample ID: 500-198578-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.41	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	0.81	J	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	890	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	7.2		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800	B	5.5	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	150	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	470		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	110	B	55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	28	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.041		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-31-B01 (10-15) Lab Sample ID: 500-198578-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0082	J	0.018	0.0076	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.91	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.94		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	8.0		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3530-31-B01 (10-15) (Continued) Lab Sample ID: 500-198578-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	1500	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.47		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.87		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	27	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.66		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0094		0.0075	0.0075	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.041		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3530-31-B02 (0-6) Lab Sample ID: 500-198578-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.76	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	260		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	3.2		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1400	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.60	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	16		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	290	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.42		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	560	B	60	8.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.96		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	62	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0086	J	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	4.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Environmental Design International, Inc.
Job ID: 500-198578-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-31-B02 (6-12)
Lab Sample ID: 500-198578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	1.9	J	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	1100	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	7.3		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1900	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	250	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	560		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	270	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.69		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	27	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Zinc	0.067	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	6.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198578-1	3530-31-B01 (0-5)	Solid	05/03/21 14:40	05/04/21 11:30	
500-198578-2	3530-31-B01 (0-5)D	Solid	05/03/21 14:40	05/04/21 11:30	
500-198578-3	3530-31-B01 (5-10)	Solid	05/03/21 15:00	05/04/21 11:30	
500-198578-4	3530-31-B01 (10-15)	Solid	05/03/21 15:10	05/04/21 11:30	
500-198578-5	3530-31-B02 (0-6)	Solid	05/03/21 15:30	05/04/21 11:30	
500-198578-6	3530-31-B02 (6-12)	Solid	05/03/21 15:40	05/04/21 11:30	

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Carbon tetrachloride	<0.0021	*+	0.0021	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*05/04/21 17:51*	*05/05/21 13:37*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/04/21 17:51*	*05/05/21 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*05/04/21 17:51*	*05/05/21 13:37*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*05/04/21 17:51*	*05/05/21 13:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:10	05/11/21 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*110*		*31 - 166*	*05/10/21 19:10*	*05/11/21 11:09*	*1*
Phenol-d5	*104*		*30 - 153*	*05/10/21 19:10*	*05/11/21 11:09*	*1*
Nitrobenzene-d5	*97*		*37 - 147*	*05/10/21 19:10*	*05/11/21 11:09*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*05/10/21 19:10*	*05/11/21 11:09*	*1*
2,4,6-Tribromophenol	*108*		*31 - 143*	*05/10/21 19:10*	*05/11/21 11:09*	*1*
Terphenyl-d14	*90*		*42 - 157*	*05/10/21 19:10*	*05/11/21 11:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.77**	**J**	1.2	0.24	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Arsenic	**7.9**		0.62	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Barium	**900**		1.2	0.14	mg/Kg	☼	05/10/21 09:17	05/13/21 11:57	2
Beryllium	**0.71**		0.25	0.058	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Boron	**2.6**	**J**	3.1	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Calcium	**910**	**B**	12	2.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Chromium	**20**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Cobalt	**7.3**		0.62	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 11:57	2
Copper	**18**		0.62	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Iron	**21000**	**B**	12	6.4	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Lead	**13**		0.31	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Magnesium	**3100**	**B**	6.2	3.1	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Manganese	**250**	**B**	0.62	0.090	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Nickel	**17**		0.62	0.18	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Potassium	**1200**		31	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Selenium	<0.62		0.62	0.36	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Silver	**0.41**		0.31	0.080	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Sodium	**180**	**B**	62	9.2	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Thallium	**1.0**		0.62	0.31	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Vanadium	**34**		0.31	0.073	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1
Zinc	**68**	**B**	1.2	0.54	mg/Kg	☼	05/10/21 09:17	05/12/21 19:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.77**		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:11	1
Boron	**0.16**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:11	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:11	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:11	1
Cobalt	**0.017**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:11	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:11	1
Nickel	**0.033**		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:11	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:11	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:11	1
Zinc	**0.050**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0063	mg/Kg	☼	05/10/21 13:25	05/11/21 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.1**		0.2	0.2	SU			05/07/21 18:36	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)D
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Carbon tetrachloride	<0.0020	*+	0.0020	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	05/04/21 17:51	05/05/21 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*05/04/21 17:51*	*05/05/21 14:03*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*05/04/21 17:51*	*05/05/21 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*05/04/21 17:51*	*05/05/21 14:03*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*05/04/21 17:51*	*05/05/21 14:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Bis(2-chloroethyl)ether	<0.21	F1	0.21	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)D
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
N-Nitrosodi-n-propylamine	<0.083	F1	0.083	0.050	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
1,2,4-Trichlorobenzene	<0.21	F1	0.21	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Hexachlorobutadiene	<0.21	F1	0.21	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Hexachlorocyclopentadiene	<0.83	F2	0.83	0.24	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4-Dinitrophenol	<0.83	F1	0.83	0.72	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Pentachlorophenol	<0.83	F2	0.83	0.66	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
4,6-Dinitro-2-methylphenol	<0.83	F2	0.83	0.33	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1

Client Sample ID: 3530-31-B01 (0-5)D
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/10/21 19:10	05/11/21 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*109*		*31 - 166*	*05/10/21 19:10*	*05/11/21 11:30*	*1*
Phenol-d5	*102*		*30 - 153*	*05/10/21 19:10*	*05/11/21 11:30*	*1*
Nitrobenzene-d5	*96*		*37 - 147*	*05/10/21 19:10*	*05/11/21 11:30*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*05/10/21 19:10*	*05/11/21 11:30*	*1*
2,4,6-Tribromophenol	*106*		*31 - 143*	*05/10/21 19:10*	*05/11/21 11:30*	*1*
Terphenyl-d14	*90*		*42 - 157*	*05/10/21 19:10*	*05/11/21 11:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.80**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Arsenic	**7.9**		0.60	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Barium	**370**		0.60	0.069	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Beryllium	**0.71**		0.24	0.056	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Boron	**2.5**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Calcium	**850**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Chromium	**19**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Cobalt	**7.7**		0.60	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 12:00	2
Copper	**17**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Iron	**20000**	**B**	12	6.3	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Lead	**14**		0.30	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Magnesium	**3000**	**B**	6.0	3.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Manganese	**280**	**B**	0.60	0.087	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Nickel	**17**		0.60	0.18	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Potassium	**1200**		30	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Silver	**0.44**		0.30	0.078	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Sodium	**160**	**B**	60	8.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Thallium	**1.0**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Vanadium	**34**		0.30	0.071	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1
Zinc	**67**	**B**	1.2	0.53	mg/Kg	☼	05/10/21 09:17	05/12/21 19:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.84**		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:14	1
Boron	**0.061**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:14	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)D
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:14	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:14	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:14	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:14	1
Nickel	**0.033**		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:14	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:14	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:14	1
Zinc	**0.042**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0075**	**J**	0.018	0.0061	mg/Kg	☼	05/10/21 13:25	05/11/21 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.0**		0.2	0.2	SU			05/07/21 18:39	1

Client: Environmental Design International, Inc.
Job ID: 500-198578-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-31-B01 (5-10)
Lab Sample ID: 500-198578-3
Date Collected: 05/03/21 15:00
Matrix: Solid
Date Received: 05/04/21 11:30
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.011**	**J**	0.017	0.0076	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*05/04/21 17:51*	*05/05/21 14:29*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*05/04/21 17:51*	*05/05/21 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/04/21 17:51*	*05/05/21 14:29*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/04/21 17:51*	*05/05/21 14:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (5-10)
Date Collected: 05/03/21 15:00
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1

Client Sample ID: 3530-31-B01 (5-10)
Date Collected: 05/03/21 15:00
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*119*		*31 - 166*	*05/10/21 19:10*	*05/11/21 11:52*	*1*
Phenol-d5	*114*		*30 - 153*	*05/10/21 19:10*	*05/11/21 11:52*	*1*
Nitrobenzene-d5	*104*		*37 - 147*	*05/10/21 19:10*	*05/11/21 11:52*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*05/10/21 19:10*	*05/11/21 11:52*	*1*
2,4,6-Tribromophenol	*113*		*31 - 143*	*05/10/21 19:10*	*05/11/21 11:52*	*1*
Terphenyl-d14	*97*		*42 - 157*	*05/10/21 19:10*	*05/11/21 11:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Arsenic	**3.0**		0.55	0.19	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Barium	**71**		0.55	0.063	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Beryllium	**0.61**		0.22	0.052	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Boron	**0.81**	**J**	2.8	0.26	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Calcium	**890**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Chromium	**14**		0.55	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Cobalt	**4.6**		0.28	0.073	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Copper	**7.2**		0.55	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Iron	**12000**	**B**	11	5.8	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Lead	**9.0**		0.28	0.13	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Magnesium	**1800**	**B**	5.5	2.8	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Manganese	**150**	**B**	0.55	0.080	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Nickel	**11**		0.55	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Potassium	**470**		28	9.8	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Silver	**0.36**		0.28	0.072	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Sodium	**110**	**B**	55	8.2	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Thallium	**0.48**	**J**	0.55	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Vanadium	**26**		0.28	0.065	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1
Zinc	**28**	**B**	1.1	0.49	mg/Kg	☼	05/10/21 09:17	05/12/21 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.46**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:18	1
Boron	**0.18**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:18	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (5-10)
Date Collected: 05/03/21 15:00
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:18	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:18	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:18	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:18	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:18	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:18	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:18	1
Zinc	**0.035**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.019	0.0064	mg/Kg	☼	05/10/21 13:25	05/11/21 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.6**		0.2	0.2	SU			05/07/21 18:41	1

Client: Environmental Design International, Inc.
Job ID: 500-198578-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-31-B01 (10-15)
Date Collected: 05/03/21 15:10
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-4
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0082	J	0.018	0.0076	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*05/04/21 17:51*	*05/05/21 14:54*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*05/04/21 17:51*	*05/05/21 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*05/04/21 17:51*	*05/05/21 14:54*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*05/04/21 17:51*	*05/05/21 14:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1

Client: Environmental Design International, Inc.
Job ID: 500-198578-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-31-B01 (10-15)
Lab Sample ID: 500-198578-4
Date Collected: 05/03/21 15:10
Matrix: Solid
Date Received: 05/04/21 11:30
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1

Client Sample ID: 3530-31-B01 (10-15)
Date Collected: 05/03/21 15:10
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-4
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*118*		*31 - 166*	*05/10/21 19:10*	*05/11/21 12:13*	*1*
Phenol-d5	*112*		*30 - 153*	*05/10/21 19:10*	*05/11/21 12:13*	*1*
Nitrobenzene-d5	*101*		*37 - 147*	*05/10/21 19:10*	*05/11/21 12:13*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*05/10/21 19:10*	*05/11/21 12:13*	*1*
2,4,6-Tribromophenol	*97*		*31 - 143*	*05/10/21 19:10*	*05/11/21 12:13*	*1*
Terphenyl-d14	*96*		*42 - 157*	*05/10/21 19:10*	*05/11/21 12:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.91**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Arsenic	**6.3**		0.59	0.20	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Barium	**79**		0.59	0.067	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Beryllium	**0.94**		0.24	0.055	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Boron	<2.9		2.9	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Calcium	**1200**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Chromium	**17**		0.59	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Cobalt	**10**		0.29	0.077	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Copper	**8.0**		0.59	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Iron	**19000**	**B**	12	6.1	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Lead	**13**		0.29	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Magnesium	**1500**	**B**	5.9	2.9	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Manganese	**370**	**B**	0.59	0.085	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Nickel	**15**		0.59	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Potassium	**570**		29	10	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Silver	**0.47**		0.29	0.076	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Sodium	**140**	**B**	59	8.7	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Thallium	**0.87**		0.59	0.29	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Vanadium	**30**		0.29	0.069	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1
Zinc	**27**	**B**	1.2	0.52	mg/Kg	☼	05/10/21 09:17	05/12/21 20:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.57**		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:21	1
Boron	**0.11**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:21	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (10-15)
Date Collected: 05/03/21 15:10
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-4
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:21	1
Cobalt	**0.052**		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:21	1
Iron	**0.66**		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:21	1
Lead	**0.0094**		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:21	1
Nickel	**0.030**		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:21	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:21	1
Zinc	<0.50		0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.041**		0.0075	0.0075	mg/L		05/10/21 18:40	05/11/21 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.019	0.0064	mg/Kg	☼	05/10/21 13:25	05/11/21 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			05/07/21 18:44	1

Client Sample ID: 3530-31-B02 (0-6)
Date Collected: 05/03/21 15:30
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-5
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Carbon tetrachloride	<0.0021	*+	0.0021	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	05/04/21 17:51	05/05/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*	*05/04/21 17:51*	*05/05/21 15:20*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*05/04/21 17:51*	*05/05/21 15:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*05/04/21 17:51*	*05/05/21 15:20*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*	*05/04/21 17:51*	*05/05/21 15:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (0-6)
Date Collected: 05/03/21 15:30
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-5
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1

Client Sample ID: 3530-31-B02 (0-6)
Date Collected: 05/03/21 15:30
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-5
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/10/21 19:10	05/11/21 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*98*		*31 - 166*	*05/10/21 19:10*	*05/11/21 12:34*	*1*
Phenol-d5	*96*		*30 - 153*	*05/10/21 19:10*	*05/11/21 12:34*	*1*
Nitrobenzene-d5	*83*		*37 - 147*	*05/10/21 19:10*	*05/11/21 12:34*	*1*
2-Fluorobiphenyl	*70*		*43 - 145*	*05/10/21 19:10*	*05/11/21 12:34*	*1*
2,4,6-Tribromophenol	*101*		*31 - 143*	*05/10/21 19:10*	*05/11/21 12:34*	*1*
Terphenyl-d14	*88*		*42 - 157*	*05/10/21 19:10*	*05/11/21 12:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.76**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Arsenic	**7.3**		0.60	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Barium	**260**		0.60	0.068	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Beryllium	**0.69**		0.24	0.056	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Boron	**3.2**		3.0	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Calcium	**1400**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Chromium	**20**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Cobalt	**6.8**		0.60	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 12:04	2
Copper	**16**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Iron	**20000**	**B**	12	6.2	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Lead	**14**		0.30	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Magnesium	**2700**	**B**	6.0	3.0	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Manganese	**290**	**B**	0.60	0.087	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Nickel	**16**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Potassium	**1300**		30	11	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Selenium	**0.52**	**J**	0.60	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Silver	**0.42**		0.30	0.077	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Sodium	**560**	**B**	60	8.9	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Thallium	**0.96**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Vanadium	**34**		0.30	0.071	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1
Zinc	**62**	**B**	1.2	0.53	mg/Kg	☼	05/10/21 09:17	05/12/21 20:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.68**		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:31	1
Boron	**0.12**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:31	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (0-6)
Date Collected: 05/03/21 15:30
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-5
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:31	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:31	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:31	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:31	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:31	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:31	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:31	1
Zinc	**0.033**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0086**	**J**	0.020	0.0065	mg/Kg	☼	05/10/21 13:25	05/11/21 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**4.3**		0.2	0.2	SU			05/07/21 18:48	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (6-12)
Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Carbon tetrachloride	<0.0016	*+	0.0016	0.00046	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	05/04/21 17:51	05/05/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*05/04/21 17:51*	*05/05/21 15:46*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*05/04/21 17:51*	*05/05/21 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*05/04/21 17:51*	*05/05/21 15:46*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*05/04/21 17:51*	*05/05/21 15:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (6-12)
Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1

Client Sample ID: 3530-31-B02 (6-12)
Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/10/21 19:10	05/11/21 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*100*		*31 - 166*	*05/10/21 19:10*	*05/11/21 12:55*	*1*
Phenol-d5	*101*		*30 - 153*	*05/10/21 19:10*	*05/11/21 12:55*	*1*
Nitrobenzene-d5	*88*		*37 - 147*	*05/10/21 19:10*	*05/11/21 12:55*	*1*
2-Fluorobiphenyl	*73*		*43 - 145*	*05/10/21 19:10*	*05/11/21 12:55*	*1*
2,4,6-Tribromophenol	*89*		*31 - 143*	*05/10/21 19:10*	*05/11/21 12:55*	*1*
Terphenyl-d14	*88*		*42 - 157*	*05/10/21 19:10*	*05/11/21 12:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.1	0.22	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Arsenic	**4.7**		0.57	0.20	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Barium	**76**		0.57	0.065	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Beryllium	**0.66**		0.23	0.053	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Boron	**1.9**	**J**	2.9	0.27	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Cadmium	<0.11		0.11	0.021	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Calcium	**1100**	**B**	11	1.9	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Chromium	**18**		0.57	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Cobalt	**4.9**		0.29	0.075	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Copper	**7.3**		0.57	0.16	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Iron	**15000**	**B**	11	5.9	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Lead	**8.2**		0.29	0.13	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Magnesium	**1900**	**B**	5.7	2.8	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Manganese	**250**	**B**	0.57	0.083	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Nickel	**12**		0.57	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Potassium	**560**		29	10	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Silver	**0.33**		0.29	0.074	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Sodium	**270**	**B**	57	8.4	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Thallium	**0.69**		0.57	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Vanadium	**32**		0.29	0.067	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1
Zinc	**27**	**B**	1.1	0.50	mg/Kg	☼	05/10/21 09:17	05/12/21 20:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.28**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:34	1
Boron	**0.18**	**J**	0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:34	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (6-12)

Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:34	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:34	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:34	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:34	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:34	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:34	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:34	1
Zinc	**0.067**	**J**	0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0063	mg/Kg	☼	05/10/21 13:25	05/11/21 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.1**		0.2	0.2	SU			05/07/21 18:53	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 596828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	5035	
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	5035	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	5035	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	5035	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	5035	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 596845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	8260B	596828
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	8260B	596828
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	8260B	596828
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	8260B	596828
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	8260B	596828
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	8260B	596828
MB 500-596845/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-596845/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-596845/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 597931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	3541	
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	3541	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	3541	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	3541	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	3541	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	3541	
MB 500-597931/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-597931/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-198578-2 MS	3530-31-B01 (0-5)D	Total/NA	Solid	3541	
500-198578-2 MSD	3530-31-B01 (0-5)D	Total/NA	Solid	3541	

Analysis Batch: 598004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-597931/1-A	Method Blank	Total/NA	Solid	8270D	597931
LCS 500-597931/2-A	Lab Control Sample	Total/NA	Solid	8270D	597931

Analysis Batch: 598015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	8270D	597931
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	8270D	597931
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	8270D	597931
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	8270D	597931
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	8270D	597931
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	8270D	597931
500-198578-2 MS	3530-31-B01 (0-5)D	Total/NA	Solid	8270D	597931
500-198578-2 MSD	3530-31-B01 (0-5)D	Total/NA	Solid	8270D	597931

Metals

Leach Batch: 597741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	1311	
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	1311	
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	1311	
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	1311	
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	1311	
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	1311	
LB 500-597741/1-B	Method Blank	TCLP	Solid	1311	
LB 500-597741/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 597744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-4	3530-31-B01 (10-15)	SPLP East	Solid	1312	
LB 500-597744/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 597813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	3050B	
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	3050B	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	3050B	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	3050B	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	3050B	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	3050B	
MB 500-597813/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 597845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	7471B	
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	7471B	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	7471B	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	7471B	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	7471B	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	7471B	
MB 500-597845/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-597845/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-198578-5 MS	3530-31-B02 (0-6)	Total/NA	Solid	7471B	
500-198578-5 MSD	3530-31-B02 (0-6)	Total/NA	Solid	7471B	
500-198578-5 DU	3530-31-B02 (0-6)	Total/NA	Solid	7471B	

Prep Batch: 597928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	3010A	597741
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	3010A	597741
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	3010A	597741
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	3010A	597741
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	3010A	597741
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	3010A	597741
LB 500-597741/1-B	Method Blank	TCLP	Solid	3010A	597741
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Prep Batch: 597929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-4	3530-31-B01 (10-15)	SPLP East	Solid	3010A	597744
LB 500-597744/1-B	Method Blank	SPLP East	Solid	3010A	597744
LCS 500-597929/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 598059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	7471B	597845
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	7471B	597845
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	7471B	597845
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	7471B	597845
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	7471B	597845
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	7471B	597845
MB 500-597845/12-A	Method Blank	Total/NA	Solid	7471B	597845
LCS 500-597845/13-A	Lab Control Sample	Total/NA	Solid	7471B	597845
500-198578-5 MS	3530-31-B02 (0-6)	Total/NA	Solid	7471B	597845
500-198578-5 MSD	3530-31-B02 (0-6)	Total/NA	Solid	7471B	597845
500-198578-5 DU	3530-31-B02 (0-6)	Total/NA	Solid	7471B	597845

Prep Batch: 598065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	7470A	597741
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	7470A	597741
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	7470A	597741
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	7470A	597741
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	7470A	597741
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	7470A	597741
LB 500-597741/1-C	Method Blank	TCLP	Solid	7470A	597741
MB 500-598065/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598065/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 598109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	6010B	597928
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	6010B	597928
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	6010B	597928
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	6010B	597928
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	6010B	597928
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	6010B	597928
LB 500-597741/1-B	Method Blank	TCLP	Solid	6010B	597928
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	6010B	597928

Analysis Batch: 598227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-4	3530-31-B01 (10-15)	SPLP East	Solid	6010B	597929
LB 500-597744/1-B	Method Blank	SPLP East	Solid	6010B	597929
LCS 500-597929/2-A	Lab Control Sample	Total/NA	Solid	6010B	597929

Analysis Batch: 598335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	7470A	598065
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	7470A	598065

Metals (Continued)

Analysis Batch: 598335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	7470A	598065
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	7470A	598065
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	7470A	598065
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	7470A	598065
LB 500-597741/1-C	Method Blank	TCLP	Solid	7470A	598065
MB 500-598065/12-A	Method Blank	Total/NA	Solid	7470A	598065
LCS 500-598065/14-A	Lab Control Sample	Total/NA	Solid	7470A	598065

Analysis Batch: 598495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	6010B	597813
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	6010B	597813
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	6010B	597813
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	6010B	597813
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	6010B	597813
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	6010B	597813
MB 500-597813/1-A	Method Blank	Total/NA	Solid	6010B	597813
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	6010B	597813

Analysis Batch: 598615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	TCLP	Solid	6020A	597928
500-198578-2	3530-31-B01 (0-5)D	TCLP	Solid	6020A	597928
500-198578-3	3530-31-B01 (5-10)	TCLP	Solid	6020A	597928
500-198578-4	3530-31-B01 (10-15)	TCLP	Solid	6020A	597928
500-198578-5	3530-31-B02 (0-6)	TCLP	Solid	6020A	597928
500-198578-6	3530-31-B02 (6-12)	TCLP	Solid	6020A	597928
LB 500-597741/1-B	Method Blank	TCLP	Solid	6020A	597928
LCS 500-597928/2-A	Lab Control Sample	Total/NA	Solid	6020A	597928

Analysis Batch: 598684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	6010B	597813
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	6010B	597813
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	6010B	597813

General Chemistry

Analysis Batch: 597446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	Moisture	
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	Moisture	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	Moisture	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	Moisture	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	Moisture	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	Moisture	
500-198578-2 DU	3530-31-B01 (0-5)D	Total/NA	Solid	Moisture	

Analysis Batch: 597710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-1	3530-31-B01 (0-5)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 597710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198578-2	3530-31-B01 (0-5)D	Total/NA	Solid	9045D	
500-198578-3	3530-31-B01 (5-10)	Total/NA	Solid	9045D	
500-198578-4	3530-31-B01 (10-15)	Total/NA	Solid	9045D	
500-198578-5	3530-31-B02 (0-6)	Total/NA	Solid	9045D	
500-198578-6	3530-31-B02 (6-12)	Total/NA	Solid	9045D	
LCS 500-597710/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597710/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-198578-5 DU	3530-31-B02 (0-6)	Total/NA	Solid	9045D	

Analysis Batch: 600218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-600218/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-600218/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198578-1	3530-31-B01 (0-5)	91	100	90	90
500-198578-2	3530-31-B01 (0-5)D	93	99	92	90
500-198578-3	3530-31-B01 (5-10)	92	100	91	89
500-198578-4	3530-31-B01 (10-15)	104	99	91	88
500-198578-5	3530-31-B02 (0-6)	95	101	98	89
500-198578-6	3530-31-B02 (6-12)	92	102	94	90
LCS 500-596845/4	Lab Control Sample	83	93	82	92
LCSD 500-596845/5	Lab Control Sample Dup	85	93	81	93
MB 500-596845/7	Method Blank	93	99	88	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198578-1	3530-31-B01 (0-5)	110	104	97	81	108	90
500-198578-2	3530-31-B01 (0-5)D	109	102	96	80	106	90
500-198578-2 MS	3530-31-B01 (0-5)D	121	114	97	79	92	93
500-198578-2 MSD	3530-31-B01 (0-5)D	93	92	77	63	75	77
500-198578-3	3530-31-B01 (5-10)	119	114	104	87	113	97
500-198578-4	3530-31-B01 (10-15)	118	112	101	82	97	96
500-198578-5	3530-31-B02 (0-6)	98	96	83	70	101	88
500-198578-6	3530-31-B02 (6-12)	100	101	88	73	89	88
LCS 500-597931/2-A	Lab Control Sample	94	96	91	91	78	100
MB 500-597931/1-A	Method Blank	93	89	93	103	27 S1-	124

Surrogate Legend

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

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

Lab Sample ID: MB 500-596845/7
Matrix: Solid
Analysis Batch: 596845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/05/21 13:11	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/05/21 13:11	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/05/21 13:11	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/05/21 13:11	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/05/21 13:11	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/05/21 13:11	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/05/21 13:11	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/05/21 13:11	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/05/21 13:11	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/05/21 13:11	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/05/21 13:11	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/05/21 13:11	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/05/21 13:11	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/05/21 13:11	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/05/21 13:11	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/05/21 13:11	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/05/21 13:11	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/05/21 13:11	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/05/21 13:11	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/05/21 13:11	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/05/21 13:11	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/05/21 13:11	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/05/21 13:11	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/05/21 13:11	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/05/21 13:11	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/05/21 13:11	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/05/21 13:11	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/05/21 13:11	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/05/21 13:11	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/05/21 13:11	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/05/21 13:11	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/05/21 13:11	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/05/21 13:11	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/05/21 13:11	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/05/21 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*		*05/05/21 13:11*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*05/05/21 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*		*05/05/21 13:11*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*		*05/05/21 13:11*	*1*

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

Lab Sample ID: LCS 500-596845/4
Matrix: Solid
Analysis Batch: 596845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0368		mg/Kg		74	40 - 150
Benzene	0.0500	0.0589		mg/Kg		118	70 - 125
Bromodichloromethane	0.0500	0.0543		mg/Kg		109	67 - 129
Bromoform	0.0500	0.0523		mg/Kg		105	68 - 136
Bromomethane	0.0500	0.0429		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0351		mg/Kg		70	47 - 138
Carbon disulfide	0.0500	0.0598		mg/Kg		120	70 - 129
Carbon tetrachloride	0.0500	0.0662	*+	mg/Kg		132	75 - 125
Chlorobenzene	0.0500	0.0582		mg/Kg		116	50 - 150
Chloroethane	0.0500	0.0536		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0567		mg/Kg		113	57 - 135
Chloromethane	0.0500	0.0514		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
Dibromochloromethane	0.0500	0.0547		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0500	0.0605		mg/Kg		121	70 - 125
1,2-Dichloroethane	0.0500	0.0502		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0500	0.0575		mg/Kg		115	70 - 120
1,2-Dichloropropane	0.0500	0.0594		mg/Kg		119	70 - 125
Ethylbenzene	0.0500	0.0607		mg/Kg		121	61 - 136
2-Hexanone	0.0500	0.0380		mg/Kg		76	48 - 146
Methylene Chloride	0.0500	0.0504		mg/Kg		101	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0385		mg/Kg		77	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0582		mg/Kg		116	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0599		mg/Kg		120	70 - 124
Toluene	0.0500	0.0583		mg/Kg		117	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0587		mg/Kg		117	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 125
1,1,1-Trichloroethane	0.0500	0.0607		mg/Kg		121	70 - 128
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0610		mg/Kg		122	70 - 125
Vinyl acetate	0.0500	0.0379		mg/Kg		76	40 - 153
Vinyl chloride	0.0500	0.0492		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 134*
Toluene-d8 (Surr)	*92*		*75 - 124*

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

Lab Sample ID: LCSD 500-596845/5
Matrix: Solid
Analysis Batch: 596845

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0326		mg/Kg		65	40 - 150	12	30
Benzene			0.0500	0.0562		mg/Kg		112	70 - 125	5	30
Bromodichloromethane			0.0500	0.0512		mg/Kg		102	67 - 129	6	30
Bromoform			0.0500	0.0490		mg/Kg		98	68 - 136	6	30
Bromomethane			0.0500	0.0397		mg/Kg		79	70 - 130	8	30
2-Butanone (MEK)			0.0500	0.0371		mg/Kg		74	47 - 138	6	30
Carbon disulfide			0.0500	0.0559		mg/Kg		112	70 - 129	7	30
Carbon tetrachloride			0.0500	0.0620		mg/Kg		124	75 - 125	7	30
Chlorobenzene			0.0500	0.0556		mg/Kg		111	50 - 150	5	30
Chloroethane			0.0500	0.0480		mg/Kg		96	75 - 125	11	30
Chloroform			0.0500	0.0528		mg/Kg		106	57 - 135	7	30
Chloromethane			0.0500	0.0479		mg/Kg		96	70 - 125	7	30
cis-1,2-Dichloroethene			0.0500	0.0521		mg/Kg		104	70 - 125	4	30
cis-1,3-Dichloropropene			0.0500	0.0480		mg/Kg		96	70 - 125	3	30
Dibromochloromethane			0.0500	0.0521		mg/Kg		104	69 - 125	5	30
1,1-Dichloroethane			0.0500	0.0573		mg/Kg		115	70 - 125	6	30
1,2-Dichloroethane			0.0500	0.0484		mg/Kg		97	70 - 130	4	30
1,1-Dichloroethene			0.0500	0.0536		mg/Kg		107	70 - 120	7	30
1,2-Dichloropropane			0.0500	0.0561		mg/Kg		112	70 - 125	6	30
Ethylbenzene			0.0500	0.0595		mg/Kg		119	61 - 136	2	30
2-Hexanone			0.0500	0.0374		mg/Kg		75	48 - 146	1	30
Methylene Chloride			0.0500	0.0465		mg/Kg		93	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0369		mg/Kg		74	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0441		mg/Kg		88	50 - 140	3	30
Styrene			0.0500	0.0567		mg/Kg		113	70 - 125	2	30
1,1,2,2-Tetrachloroethane			0.0500	0.0421		mg/Kg		84	70 - 122	3	30
Tetrachloroethene			0.0500	0.0572		mg/Kg		114	70 - 124	5	30
Toluene			0.0500	0.0555		mg/Kg		111	70 - 125	5	30
trans-1,2-Dichloroethene			0.0500	0.0549		mg/Kg		110	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0465		mg/Kg		93	70 - 125	5	30
1,1,1-Trichloroethane			0.0500	0.0574		mg/Kg		115	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0470		mg/Kg		94	70 - 125	2	30
Trichloroethene			0.0500	0.0569		mg/Kg		114	70 - 125	7	30
Vinyl acetate			0.0500	0.0356		mg/Kg		71	40 - 153	6	30
Vinyl chloride			0.0500	0.0439		mg/Kg		88	70 - 125	11	30
Xylenes, Total			0.100	0.108		mg/Kg		108	53 - 147	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 134*
Toluene-d8 (Surr)	*93*		*75 - 124*

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

Lab Sample ID: MB 500-597931/1-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/10/21 19:10	05/11/21 12:11	1

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

Lab Sample ID: MB 500-597931/1-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/10/21 19:10	05/11/21 12:11	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/10/21 19:10	05/11/21 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/10/21 19:10*	*05/11/21 12:11*	*1*
Phenol-d5	*89*		*30 - 153*	*05/10/21 19:10*	*05/11/21 12:11*	*1*
Nitrobenzene-d5	*93*		*37 - 147*	*05/10/21 19:10*	*05/11/21 12:11*	*1*
2-Fluorobiphenyl	*103*		*43 - 145*	*05/10/21 19:10*	*05/11/21 12:11*	*1*
2,4,6-Tribromophenol	*27*	*S1-*	*31 - 143*	*05/10/21 19:10*	*05/11/21 12:11*	*1*
Terphenyl-d14	*124*		*42 - 157*	*05/10/21 19:10*	*05/11/21 12:11*	*1*

Lab Sample ID: LCS 500-597931/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.29		mg/Kg		97	56 - 122
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		83	55 - 111
1,3-Dichlorobenzene	1.33	1.16		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.18		mg/Kg		88	61 - 110
1,2-Dichlorobenzene	1.33	1.19		mg/Kg		89	62 - 110
2-Methylphenol	1.33	1.36		mg/Kg		102	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.61		mg/Kg		121	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		83	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.20		mg/Kg		90	64 - 110
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
1,2,4-Trichlorobenzene	1.33	1.31		mg/Kg		98	66 - 117
Isophorone	1.33	1.25		mg/Kg		94	55 - 110
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Hexachlorobutadiene	1.33	1.32		mg/Kg		99	56 - 120
Naphthalene	1.33	1.30		mg/Kg		97	63 - 110
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	58 - 120

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

Lab Sample ID: LCS 500-597931/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.23		mg/Kg		92	30 - 150
2,4,6-Trichlorophenol	1.33	1.05		mg/Kg		79	57 - 120
2,4,5-Trichlorophenol	1.33	1.25		mg/Kg		93	50 - 120
Hexachlorocyclopentadiene	1.33	0.638	J	mg/Kg		48	10 - 133
2-Methylnaphthalene	1.33	1.35		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.18		mg/Kg		89	57 - 124
2-Chloronaphthalene	1.33	1.07		mg/Kg		80	69 - 114
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		97	65 - 122
2,6-Dinitrotoluene	1.33	1.12		mg/Kg		84	70 - 123
2-Nitrophenol	1.33	1.25		mg/Kg		94	60 - 120
3-Nitroaniline	1.33	0.962		mg/Kg		72	40 - 122
Dimethyl phthalate	1.33	1.07		mg/Kg		81	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 100
Acenaphthylene	1.33	1.10		mg/Kg		82	68 - 120
2,4-Dinitrotoluene	1.33	1.22		mg/Kg		91	69 - 124
Acenaphthene	1.33	1.11		mg/Kg		83	65 - 124
Dibenzofuran	1.33	1.18		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.38		mg/Kg		89	30 - 122
Fluorene	1.33	1.11		mg/Kg		84	62 - 120
4-Nitroaniline	1.33	0.986		mg/Kg		74	60 - 160
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Hexachlorobenzene	1.33	1.35		mg/Kg		101	63 - 124
Diethyl phthalate	1.33	1.09		mg/Kg		82	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.14		mg/Kg		85	62 - 119
Pentachlorophenol	2.67	1.77		mg/Kg		66	13 - 112
N-Nitrosodiphenylamine	1.33	1.29		mg/Kg		97	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.871		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.33		mg/Kg		100	62 - 120
Anthracene	1.33	1.33		mg/Kg		100	70 - 114
Carbazole	1.33	1.54		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.46		mg/Kg		109	62 - 120
Pyrene	1.33	1.32		mg/Kg		99	61 - 128
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	71 - 129
Benzo[a]anthracene	1.33	1.22		mg/Kg		92	67 - 122
Chrysene	1.33	1.25		mg/Kg		94	63 - 120
3,3'-Dichlorobenzidine	1.33	0.941		mg/Kg		71	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	72 - 131
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	68 - 134
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	69 - 129
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		94	68 - 127
Benzo[a]pyrene	1.33	1.49		mg/Kg		112	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.46		mg/Kg		110	68 - 130
Dibenz(a,h)anthracene	1.33	1.44		mg/Kg		108	64 - 131
Benzo[g,h,i]perylene	1.33	1.44		mg/Kg		108	72 - 131
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120

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

Lab Sample ID: LCS 500-597931/2-A
Matrix: Solid
Analysis Batch: 598004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597931

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	94		31 - 166
Phenol-d5	96		30 - 153
Nitrobenzene-d5	91		37 - 147
2-Fluorobiphenyl	91		43 - 145
2,4,6-Tribromophenol	78		31 - 143
Terphenyl-d14	100		42 - 157

Lab Sample ID: 500-198578-2 MS
Matrix: Solid
Analysis Batch: 598015

Client Sample ID: 3530-31-B01 (0-5)D
Prep Type: Total/NA
Prep Batch: 597931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.21		1.63	1.99		mg/Kg	☼	122	56 - 122
Bis(2-chloroethyl)ether	<0.21	F1	1.63	1.85	F1	mg/Kg	☼	114	55 - 111
1,3-Dichlorobenzene	<0.21		1.63	1.28		mg/Kg	☼	79	60 - 110
1,4-Dichlorobenzene	<0.21		1.63	1.30		mg/Kg	☼	80	61 - 110
1,2-Dichlorobenzene	<0.21		1.63	1.33		mg/Kg	☼	82	62 - 110
2-Methylphenol	<0.21		1.63	1.77		mg/Kg	☼	108	60 - 120
2,2'-oxybis[1-chloropropane]	<0.21		1.63	1.82		mg/Kg	☼	111	40 - 124
N-Nitrosodi-n-propylamine	<0.083	F1	1.63	2.16	F1	mg/Kg	☼	132	56 - 118
Hexachloroethane	<0.21		1.63	1.36		mg/Kg	☼	83	60 - 114
2-Chlorophenol	<0.21		1.63	1.60		mg/Kg	☼	98	64 - 110
Nitrobenzene	<0.041		1.63	1.87		mg/Kg	☼	115	60 - 116
Bis(2-chloroethoxy)methane	<0.21		1.63	1.77		mg/Kg	☼	109	60 - 112
1,2,4-Trichlorobenzene	<0.21	F1	1.63	1.26		mg/Kg	☼	77	66 - 117
Isophorone	<0.21		1.63	1.77		mg/Kg	☼	108	55 - 110
2,4-Dimethylphenol	<0.41		1.63	1.57		mg/Kg	☼	97	60 - 110
Hexachlorobutadiene	<0.21	F1	1.63	1.13		mg/Kg	☼	69	56 - 120
Naphthalene	<0.041		1.63	1.38		mg/Kg	☼	85	63 - 110
2,4-Dichlorophenol	<0.41		1.63	1.45		mg/Kg	☼	89	58 - 120
4-Chloroaniline	<0.83		1.63	0.905		mg/Kg	☼	56	30 - 150
2,4,6-Trichlorophenol	<0.41		1.63	1.18		mg/Kg	☼	72	57 - 120
2,4,5-Trichlorophenol	<0.41		1.63	1.42		mg/Kg	☼	87	50 - 120
Hexachlorocyclopentadiene	<0.83	F2	1.63	0.502	J	mg/Kg	☼	31	10 - 133
2-Methylnaphthalene	<0.083		1.63	1.39		mg/Kg	☼	85	69 - 112
2-Nitroaniline	<0.21		1.63	1.91		mg/Kg	☼	117	57 - 124
2-Chloronaphthalene	<0.21		1.63	1.38		mg/Kg	☼	85	69 - 114
4-Chloro-3-methylphenol	<0.41		1.63	1.77		mg/Kg	☼	109	65 - 122
2,6-Dinitrotoluene	<0.21		1.63	1.45		mg/Kg	☼	89	70 - 123
2-Nitrophenol	<0.41		1.63	1.48		mg/Kg	☼	91	60 - 120
3-Nitroaniline	<0.41		1.63	1.38		mg/Kg	☼	84	40 - 122
Dimethyl phthalate	<0.21		1.63	1.40		mg/Kg	☼	86	69 - 116
2,4-Dinitrophenol	<0.83	F1	3.26	<0.82	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.041		1.63	1.42		mg/Kg	☼	87	68 - 120
2,4-Dinitrotoluene	<0.21		1.63	1.49		mg/Kg	☼	91	69 - 124
Acenaphthene	<0.041		1.63	1.48		mg/Kg	☼	91	65 - 124
Dibenzofuran	<0.21		1.63	1.38		mg/Kg	☼	84	66 - 115
4-Nitrophenol	<0.83		3.26	3.13		mg/Kg	☼	96	30 - 122

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

Lab Sample ID: 500-198578-2 MS **Client Sample ID: 3530-31-B01 (0-5)D**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598015 **Prep Batch: 597931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	<0.041		1.63	1.39		mg/Kg	☼	85	62 - 120
4-Nitroaniline	<0.41		1.63	1.45		mg/Kg	☼	89	60 - 160
4-Bromophenyl phenyl ether	<0.21		1.63	1.51		mg/Kg	☼	93	68 - 118
Hexachlorobenzene	<0.083		1.63	1.64		mg/Kg	☼	101	63 - 124
Diethyl phthalate	<0.21		1.63	1.41		mg/Kg	☼	87	58 - 120
4-Chlorophenyl phenyl ether	<0.21		1.63	1.34		mg/Kg	☼	82	62 - 119
Pentachlorophenol	<0.83	F2	3.26	2.09		mg/Kg	☼	64	13 - 112
N-Nitrosodiphenylamine	<0.21		1.63	1.44		mg/Kg	☼	89	65 - 112
4,6-Dinitro-2-methylphenol	<0.83	F2	3.26	1.37		mg/Kg	☼	42	10 - 110
Phenanthrene	<0.041		1.63	1.43		mg/Kg	☼	88	62 - 120
Anthracene	<0.041		1.63	1.41		mg/Kg	☼	87	70 - 114
Carbazole	<0.21		1.63	1.53		mg/Kg	☼	94	65 - 142
Di-n-butyl phthalate	<0.21		1.63	1.53		mg/Kg	☼	94	65 - 120
Fluoranthene	<0.041		1.63	1.47		mg/Kg	☼	90	62 - 120
Pyrene	<0.041		1.63	1.35		mg/Kg	☼	83	61 - 128
Butyl benzyl phthalate	<0.21		1.63	1.46		mg/Kg	☼	89	71 - 129
Benzo[a]anthracene	<0.041		1.63	1.50		mg/Kg	☼	92	67 - 122
Chrysene	<0.041		1.63	1.52		mg/Kg	☼	93	63 - 120
3,3'-Dichlorobenzidine	<0.21		1.63	0.890		mg/Kg	☼	55	35 - 128
Bis(2-ethylhexyl) phthalate	<0.21		1.63	1.47		mg/Kg	☼	90	72 - 131
Di-n-octyl phthalate	<0.21		1.63	1.59		mg/Kg	☼	98	68 - 134
Benzo[b]fluoranthene	<0.041		1.63	1.48		mg/Kg	☼	91	69 - 129
Benzo[k]fluoranthene	<0.041		1.63	1.43		mg/Kg	☼	87	68 - 127
Benzo[a]pyrene	<0.041		1.63	1.61		mg/Kg	☼	99	65 - 133
Indeno[1,2,3-cd]pyrene	<0.041		1.63	1.43		mg/Kg	☼	87	68 - 130
Dibenz(a,h)anthracene	<0.041		1.63	1.45		mg/Kg	☼	89	64 - 131
Benzo[g,h,i]perylene	<0.041		1.63	1.44		mg/Kg	☼	88	72 - 131
3 & 4 Methylphenol	<0.21		1.63	1.64		mg/Kg	☼	100	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*121*		*31 - 166*
Phenol-d5	*114*		*30 - 153*
Nitrobenzene-d5	*97*		*37 - 147*
2-Fluorobiphenyl	*79*		*43 - 145*
2,4,6-Tribromophenol	*92*		*31 - 143*
Terphenyl-d14	*93*		*42 - 157*

Lab Sample ID: 500-198578-2 MSD **Client Sample ID: 3530-31-B01 (0-5)D**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598015 **Prep Batch: 597931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.21		1.65	1.72		mg/Kg	☼	104	56 - 122	14	30
Bis(2-chloroethyl)ether	<0.21	F1	1.65	1.40		mg/Kg	☼	85	55 - 111	28	30
1,3-Dichlorobenzene	<0.21		1.65	1.06		mg/Kg	☼	64	60 - 110	19	30
1,4-Dichlorobenzene	<0.21		1.65	1.08		mg/Kg	☼	65	61 - 110	19	30
1,2-Dichlorobenzene	<0.21		1.65	1.10		mg/Kg	☼	67	62 - 110	19	30
2-Methylphenol	<0.21		1.65	1.51		mg/Kg	☼	91	60 - 120	16	30

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

Lab Sample ID: 500-198578-2 MSD
Matrix: Solid
Analysis Batch: 598015

Client Sample ID: 3530-31-B01 (0-5)D
Prep Type: Total/NA
Prep Batch: 597931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	<0.21		1.65	1.57		mg/Kg	☼	95	40 - 124	15	30
N-Nitrosodi-n-propylamine	<0.083	F1	1.65	1.87		mg/Kg	☼	113	56 - 118	14	30
Hexachloroethane	<0.21		1.65	1.11		mg/Kg	☼	67	60 - 114	20	30
2-Chlorophenol	<0.21		1.65	1.37		mg/Kg	☼	83	64 - 110	16	30
Nitrobenzene	<0.041		1.65	1.60		mg/Kg	☼	97	60 - 116	16	30
Bis(2-chloroethoxy)methane	<0.21		1.65	1.50		mg/Kg	☼	91	60 - 112	16	30
1,2,4-Trichlorobenzene	<0.21	F1	1.65	1.03	F1	mg/Kg	☼	63	66 - 117	20	30
Isophorone	<0.21		1.65	1.48		mg/Kg	☼	90	55 - 110	17	30
2,4-Dimethylphenol	<0.41		1.65	1.35		mg/Kg	☼	82	60 - 110	15	30
Hexachlorobutadiene	<0.21	F1	1.65	0.896	F1	mg/Kg	☼	54	56 - 120	23	30
Naphthalene	<0.041		1.65	1.17		mg/Kg	☼	71	63 - 110	16	30
2,4-Dichlorophenol	<0.41		1.65	1.23		mg/Kg	☼	74	58 - 120	16	30
4-Chloroaniline	<0.83		1.65	0.675	J	mg/Kg	☼	41	30 - 150	29	30
2,4,6-Trichlorophenol	<0.41		1.65	1.03		mg/Kg	☼	63	57 - 120	13	30
2,4,5-Trichlorophenol	<0.41		1.65	1.35		mg/Kg	☼	82	50 - 120	5	30
Hexachlorocyclopentadiene	<0.83	F2	1.65	0.349	J F2	mg/Kg	☼	21	10 - 133	36	30
2-Methylnaphthalene	<0.083		1.65	1.18		mg/Kg	☼	71	69 - 112	16	30
2-Nitroaniline	<0.21		1.65	1.71		mg/Kg	☼	103	57 - 124	11	30
2-Chloronaphthalene	<0.21		1.65	1.18		mg/Kg	☼	71	69 - 114	16	30
4-Chloro-3-methylphenol	<0.41		1.65	1.50		mg/Kg	☼	91	65 - 122	17	30
2,6-Dinitrotoluene	<0.21		1.65	1.26		mg/Kg	☼	76	70 - 123	14	30
2-Nitrophenol	<0.41		1.65	1.26		mg/Kg	☼	76	60 - 120	17	30
3-Nitroaniline	<0.41		1.65	1.22		mg/Kg	☼	74	40 - 122	12	30
Dimethyl phthalate	<0.21		1.65	1.23		mg/Kg	☼	74	69 - 116	13	30
2,4-Dinitrophenol	<0.83	F1	3.30	<0.83	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.041		1.65	1.22		mg/Kg	☼	74	68 - 120	15	30
2,4-Dinitrotoluene	<0.21		1.65	1.26		mg/Kg	☼	76	69 - 124	17	30
Acenaphthene	<0.041		1.65	1.27		mg/Kg	☼	77	65 - 124	15	30
Dibenzofuran	<0.21		1.65	1.20		mg/Kg	☼	73	66 - 115	13	30
4-Nitrophenol	<0.83		3.30	2.47		mg/Kg	☼	75	30 - 122	24	30
Fluorene	<0.041		1.65	1.22		mg/Kg	☼	74	62 - 120	13	30
4-Nitroaniline	<0.41		1.65	1.25		mg/Kg	☼	76	60 - 160	15	30
4-Bromophenyl phenyl ether	<0.21		1.65	1.33		mg/Kg	☼	81	68 - 118	13	30
Hexachlorobenzene	<0.083		1.65	1.40		mg/Kg	☼	85	63 - 124	16	30
Diethyl phthalate	<0.21		1.65	1.23		mg/Kg	☼	75	58 - 120	14	30
4-Chlorophenyl phenyl ether	<0.21		1.65	1.19		mg/Kg	☼	72	62 - 119	12	30
Pentachlorophenol	<0.83	F2	3.30	1.22	F2	mg/Kg	☼	37	13 - 112	52	30
N-Nitrosodiphenylamine	<0.21		1.65	1.25		mg/Kg	☼	76	65 - 112	14	30
4,6-Dinitro-2-methylphenol	<0.83	F2	3.30	0.654	J F2	mg/Kg	☼	20	10 - 110	71	30
Phenanthrene	<0.041		1.65	1.23		mg/Kg	☼	75	62 - 120	15	30
Anthracene	<0.041		1.65	1.25		mg/Kg	☼	76	70 - 114	13	30
Carbazole	<0.21		1.65	1.33		mg/Kg	☼	81	65 - 142	14	30
Di-n-butyl phthalate	<0.21		1.65	1.36		mg/Kg	☼	83	65 - 120	12	30
Fluoranthene	<0.041		1.65	1.26		mg/Kg	☼	77	62 - 120	15	30
Pyrene	<0.041		1.65	1.18		mg/Kg	☼	72	61 - 128	14	30
Butyl benzyl phthalate	<0.21		1.65	1.26		mg/Kg	☼	77	71 - 129	14	30
Benzo[a]anthracene	<0.041		1.65	1.30		mg/Kg	☼	79	67 - 122	15	30
Chrysene	<0.041		1.65	1.32		mg/Kg	☼	80	63 - 120	14	30
3,3'-Dichlorobenzidine	<0.21		1.65	0.856		mg/Kg	☼	52	35 - 128	4	30

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

Lab Sample ID: 500-198578-2 MSD **Client Sample ID: 3530-31-B01 (0-5)D**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598015 **Prep Batch: 597931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	<0.21		1.65	1.27		mg/Kg	☼	77	72 - 131	15	30
Di-n-octyl phthalate	<0.21		1.65	1.37		mg/Kg	☼	83	68 - 134	15	30
Benzo[b]fluoranthene	<0.041		1.65	1.18		mg/Kg	☼	71	69 - 129	23	30
Benzo[k]fluoranthene	<0.041		1.65	1.16		mg/Kg	☼	70	68 - 127	21	30
Benzo[a]pyrene	<0.041		1.65	1.37		mg/Kg	☼	83	65 - 133	16	30
Indeno[1,2,3-cd]pyrene	<0.041		1.65	1.21		mg/Kg	☼	73	68 - 130	17	30
Dibenz(a,h)anthracene	<0.041		1.65	1.22		mg/Kg	☼	74	64 - 131	17	30
Benzo[g,h,i]perylene	<0.041		1.65	1.21		mg/Kg	☼	73	72 - 131	17	30
3 & 4 Methylphenol	<0.21		1.65	1.49		mg/Kg	☼	90	57 - 120	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*93*		*31 - 166*
Phenol-d5	*92*		*30 - 153*
Nitrobenzene-d5	*77*		*37 - 147*
2-Fluorobiphenyl	*63*		*43 - 145*
2,4,6-Tribromophenol	*75*		*31 - 143*
Terphenyl-d14	*77*		*42 - 157*

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-597929/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598227 **Prep Batch: 597929**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.0919		mg/L		92	80 - 120		

Lab Sample ID: LB 500-597744/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: SPLP East**
Analysis Batch: 598227 **Prep Batch: 597929**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:40	05/11/21 13:24	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-597813/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598495 **Prep Batch: 597813**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Barium	<1.0		1.0	0.11	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Boron	<5.0		5.0	0.47	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Cadmium	0.0423	J	0.20	0.036	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Calcium	29.0		20	3.4	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1

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

Lab Sample ID: MB 500-597813/1-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Copper	<1.0		1.0	0.28	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Iron	10.8	J	20	10	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Lead	<0.50		0.50	0.23	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Magnesium	5.09	J	10	5.0	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Manganese	0.281	J	1.0	0.15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Potassium	<50		50	18	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Silver	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Sodium	15.5	J	100	15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Zinc	1.03	J	2.0	0.88	mg/Kg		05/10/21 09:17	05/12/21 19:03	1

Lab Sample ID: LCS 500-597813/2-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		mg/Kg		102	80 - 120
Arsenic	10.0	9.73		mg/Kg		97	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.82		mg/Kg		96	80 - 120
Boron	100	89.0		mg/Kg		89	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	114		mg/Kg		114	80 - 120
Lead	10.0	9.52		mg/Kg		95	80 - 120
Magnesium	1000	970		mg/Kg		97	80 - 120
Manganese	50.0	48.3		mg/Kg		97	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	9.12		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	9.54		mg/Kg		95	80 - 120
Vanadium	50.0	50.1		mg/Kg		100	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.491	J	mg/L		98	80 - 120

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

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Boron	1.00	0.908		mg/L		91	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.0928		mg/L		93	80 - 120
Nickel	0.500	0.506		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Lab Sample ID: LB 500-597741/1-B
Matrix: Solid
Analysis Batch: 598109

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/21 18:37	05/11/21 12:01	1
Boron	<0.50		0.50	0.050	mg/L		05/10/21 18:37	05/11/21 12:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/21 18:37	05/11/21 12:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Iron	<0.40		0.40	0.20	mg/L		05/10/21 18:37	05/11/21 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/10/21 18:37	05/11/21 12:01	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/21 18:37	05/11/21 12:01	1
Silver	<0.025		0.025	0.010	mg/L		05/10/21 18:37	05/11/21 12:01	1
Zinc	<0.50		0.50	0.020	mg/L		05/10/21 18:37	05/11/21 12:01	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-597928/2-A
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.502	^1+	mg/L		100	80 - 120
Thallium	0.100	0.0991		mg/L		99	80 - 120

Lab Sample ID: LB 500-597741/1-B
Matrix: Solid
Analysis Batch: 598615

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 597928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		05/10/21 18:37	05/12/21 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/21 18:37	05/12/21 17:03	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-598065/12-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:05	1

Lab Sample ID: LCS 500-598065/14-A
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00188		mg/L		94	80 - 120		

Lab Sample ID: LB 500-597741/1-C
Matrix: Solid
Analysis Batch: 598335

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598065

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/11/21 10:30	05/12/21 10:09	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-597845/12-A
Matrix: Solid
Analysis Batch: 598059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/10/21 13:25	05/11/21 07:39	1

Lab Sample ID: LCS 500-597845/13-A
Matrix: Solid
Analysis Batch: 598059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597845

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.169		mg/Kg		101	80 - 120		

Lab Sample ID: 500-198578-5 MS
Matrix: Solid
Analysis Batch: 598059

Client Sample ID: 3530-31-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 597845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.0086	J	0.0979	0.122		mg/Kg	☼	116	75 - 125		

Lab Sample ID: 500-198578-5 MSD
Matrix: Solid
Analysis Batch: 598059

Client Sample ID: 3530-31-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 597845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0086	J	0.0977	0.123		mg/Kg	☼	117	75 - 125	1	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-198578-5 DU **Client Sample ID: 3530-31-B02 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 598059 **Prep Batch: 597845**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.0086	J		<0.020		mg/Kg	☼			NC	20

Method: 9045D - pH

Lab Sample ID: 500-198578-5 DU **Client Sample ID: 3530-31-B02 (0-6)**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 597710

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	4.3			4.4		SU				0.9	

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:11	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:05	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:36	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-31-B01 (0-5)
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-1
Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 13:37	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 11:09	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:56	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598684	05/13/21 11:57	JJB	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 07:48	MJG	TAL CHI

Client Sample ID: 3530-31-B01 (0-5)D
Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:14	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:06	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:39	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B01 (0-5)D

Date Collected: 05/03/21 14:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-2

Matrix: Solid
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 14:03	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 11:30	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:59	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598684	05/13/21 12:00	JJB	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 07:50	MJG	TAL CHI

Client Sample ID: 3530-31-B01 (5-10)

Date Collected: 05/03/21 15:00
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:18	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:07	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:41	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-31-B01 (5-10)

Date Collected: 05/03/21 15:00
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-3

Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 14:29	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 11:52	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 20:09	EEN	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 07:52	MJG	TAL CHI

Client Sample ID: 3530-31-B01 (10-15) Lab Sample ID: 500-198578-4

Date Collected: 05/03/21 15:10 **Matrix: Solid**
Date Received: 05/04/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			597744	05/07/21 16:40	CMS	TAL CHI
SPLP East	Prep	3010A			597929	05/10/21 18:40	LMN	TAL CHI
SPLP East	Analysis	6010B		1	598227	05/11/21 13:40	EEN	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:21	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:09	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-31-B01 (10-15) Lab Sample ID: 500-198578-4

Date Collected: 05/03/21 15:10 **Matrix: Solid**
Date Received: 05/04/21 11:30 **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 14:54	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 12:13	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 20:12	EEN	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 07:54	MJG	TAL CHI

Client Sample ID: 3530-31-B02 (0-6) Lab Sample ID: 500-198578-5

Date Collected: 05/03/21 15:30 **Matrix: Solid**
Date Received: 05/04/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:31	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:10	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:48	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198578-1

Client Sample ID: 3530-31-B02 (0-6)

Date Collected: 05/03/21 15:30
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-5

Matrix: Solid
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 15:20	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 12:34	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 20:16	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598684	05/13/21 12:04	JJB	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 08:08	MJG	TAL CHI

Client Sample ID: 3530-31-B02 (6-12)

Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6010B		1	598109	05/11/21 12:34	JJB	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	3010A			597928	05/10/21 18:37	LMN	TAL CHI
TCLP	Analysis	6020A		1	598615	05/12/21 17:11	FXG	TAL CHI
TCLP	Leach	1311			597741	05/10/21 07:27	CMS	TAL CHI
TCLP	Prep	7470A			598065	05/11/21 10:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	598335	05/12/21 10:26	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 18:53	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:14	LWN	TAL CHI

Client Sample ID: 3530-31-B02 (6-12)

Date Collected: 05/03/21 15:40
Date Received: 05/04/21 11:30

Lab Sample ID: 500-198578-6

Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			596828	05/04/21 17:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	596845	05/05/21 15:46	PMF	TAL CHI
Total/NA	Prep	3541			597931	05/10/21 19:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	598015	05/11/21 12:55	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 20:19	EEN	TAL CHI
Total/NA	Prep	7471B			597845	05/10/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598059	05/11/21 08:16	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198578-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International inc.	PWSID:			Job #: 500-198578

Address: 33 West Monroe Street, Suite 1825
City: Chicago
State, Zip: IL 60603-5326
Phone: 312-345-1400
Email: mfischer@envdesigni com
Project Name: IDOT - 172-027 - WO 93
Site: FAP 42 / FAP 841 (IL 127 / IL 154)

500-198578 COC

Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: 945 033
WO #: 172-027 - WO 93
Lab Project #:

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note.
	Preservation Code:														
1	B30-31-B01 (0-5)	5-3-21	1440	G	S			X	X	X	X	X	X		
2	-B01 (0-5) D		1440												
3	-B01 (5-10)		1500												
4	-B01 (10-15)		1510												
5	-B02 (0-6)		1530												
6	-B02 (6-12)		1540												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	5-3-21 1830	EDI			
Relinquished by:			Received by:	5/4/21 1130	ETA CHI
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		4.4 → 4.2

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198578-1

Login Number: 198578 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198666-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/18/2021 2:18:03 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Case Narrative

Client: Environmental Design International, Inc. Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198666-1

Receipt
The sample was received on 5/5/2021 1:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1º C.

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

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

Metals
Method 6010B: The method blank for preparation batch 500-597813 and analytical batch 500-598495 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The continuing calibration blank (CCB) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3530-34-B01 (0-3) (500-198666-1) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The continuing calibration blank (CCB) at line 63 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3530-34-B01 (0-3) (500-198666-1) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6010B: The results for sample 3530-34-B01 (0-3) (500-198666-1) was negative for the element Thallium, but not twice as negative as the reporting limit(RL), therefore the data has been reported.

3530-34-B01 (0-3) (500-198666-1)

Method 6020A: The initial and continuing calibration verification (ICV/CCV) associated with batch 500-598957 recovered above the upper control limit for Antimony. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Client Sample ID: 3530-34-B01 (0-3)

Lab Sample ID: 500-198666-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.74	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	230		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	1.7	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Calcium	1800	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	20		0.60	0.16	mg/Kg	2	☼	6010B	Total/NA
Copper	8.7		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1700	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	3600	B	3.0	0.44	mg/Kg	5	☼	6010B	Total/NA
Nickel	12		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	860		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2		0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	B	60	8.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	44		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	36	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.56		0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.084		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	6.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc. Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198666-1	3530-34-B01 (0-3)	Solid	05/04/21 09:50	05/05/21 13:30	

Client: Environmental Design International, Inc.
Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-34-B01 (0-3)
Lab Sample ID: 500-198666-1
Date Collected: 05/04/21 09:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0085	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,2-Dichloropropane	<0.0020		0.0020	0.00050	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Ethylbenzene	<0.0020		0.0020	0.00093	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Tetrachloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00086	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Vinyl chloride	<0.0020		0.0020	0.00086	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	05/05/21 17:41	05/06/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*	*05/05/21 17:41*	*05/06/21 19:43*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*05/05/21 17:41*	*05/06/21 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/05/21 17:41*	*05/06/21 19:43*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*05/05/21 17:41*	*05/06/21 19:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Client Sample ID: 3530-34-B01 (0-3)
Date Collected: 05/04/21 09:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198666-1
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1

Client Sample ID: 3530-34-B01 (0-3)
Date Collected: 05/04/21 09:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198666-1
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/13/21 18:56	05/14/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*31 - 166*	*05/13/21 18:56*	*05/14/21 17:23*	*1*
Phenol-d5	*85*		*30 - 153*	*05/13/21 18:56*	*05/14/21 17:23*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/13/21 18:56*	*05/14/21 17:23*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*05/13/21 18:56*	*05/14/21 17:23*	*1*
2,4,6-Tribromophenol	*56*		*31 - 143*	*05/13/21 18:56*	*05/14/21 17:23*	*1*
Terphenyl-d14	*111*		*42 - 157*	*05/13/21 18:56*	*05/14/21 17:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.74**	**J**	1.2	0.23	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Arsenic	**14**		0.60	0.21	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Barium	**230**		0.60	0.069	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Beryllium	**0.71**		0.24	0.056	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Boron	**1.7**	**J**	3.0	0.28	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Calcium	**1800**	**B**	12	2.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Chromium	**15**		0.60	0.30	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Cobalt	**20**		0.60	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 11:50	2
Copper	**8.7**		0.60	0.17	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Iron	**20000**	**B**	12	6.3	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Lead	**30**		0.30	0.14	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Magnesium	**1700**	**B**	6.0	3.0	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Manganese	**3600**	**B**	3.0	0.44	mg/Kg	☼	05/10/21 09:17	05/13/21 11:54	5
Nickel	**12**		0.60	0.18	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Potassium	**860**		30	11	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Selenium	**1.2**		0.60	0.35	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Silver	<0.60		0.60	0.16	mg/Kg	☼	05/10/21 09:17	05/13/21 11:50	2
Sodium	**150**	**B**	60	8.9	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Thallium	<3.0	L	3.0	1.5	mg/Kg	☼	05/10/21 09:17	05/13/21 11:54	5
Vanadium	**44**		0.30	0.071	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1
Zinc	**36**	**B**	1.2	0.53	mg/Kg	☼	05/10/21 09:17	05/12/21 19:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.45**	**J**	0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 12:33	1
Boron	<0.50		0.50	0.050	mg/L		05/13/21 18:06	05/14/21 12:33	1

Client: Environmental Design International, Inc.
Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-34-B01 (0-3)
Lab Sample ID: 500-198666-1
Date Collected: 05/04/21 09:50
Matrix: Solid
Date Received: 05/05/21 13:30
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 12:33	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:33	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:33	1
Iron	**0.56**		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 12:33	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:33	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 12:33	1
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 12:33	1
Zinc	**0.021**	**J**	0.50	0.020	mg/L		05/13/21 18:06	05/14/21 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.019	0.0062	mg/Kg	☼	05/11/21 14:00	05/12/21 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.1**		0.2	0.2	SU			05/07/21 19:29	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 597056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 597090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	8260B	597056
MB 500-597090/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-597090/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-597090/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 598737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	3541	
MB 500-598737/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-598737/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 598834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	8270D	598737
MB 500-598737/1-A	Method Blank	Total/NA	Solid	8270D	598737
LCS 500-598737/2-A	Lab Control Sample	Total/NA	Solid	8270D	598737

Metals

Prep Batch: 597813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	3050B	
MB 500-597813/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 598078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	7471B	
MB 500-598078/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-598078/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 598324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	7471B	598078
MB 500-598078/12-A	Method Blank	Total/NA	Solid	7471B	598078
LCS 500-598078/13-A	Lab Control Sample	Total/NA	Solid	7471B	598078

Leach Batch: 598388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	1311	
LB 500-598388/1-C	Method Blank	TCLP	Solid	1311	
LB 500-598388/1-D	Method Blank	TCLP	Solid	1311	

Analysis Batch: 598495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	6010B	597813

Metals (Continued)

Analysis Batch: 598495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-597813/1-A	Method Blank	Total/NA	Solid	6010B	597813
LCS 500-597813/2-A	Lab Control Sample	Total/NA	Solid	6010B	597813

Prep Batch: 598637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	7470A	598388
LB 500-598388/1-C	Method Blank	TCLP	Solid	7470A	598388
MB 500-598637/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-598637/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 598684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	6010B	597813
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	6010B	597813

Prep Batch: 598729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	3010A	598388
LB 500-598388/1-D	Method Blank	TCLP	Solid	3010A	598388
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 598908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	7470A	598637
LB 500-598388/1-C	Method Blank	TCLP	Solid	7470A	598637
MB 500-598637/12-A	Method Blank	Total/NA	Solid	7470A	598637
LCS 500-598637/14-A	Lab Control Sample	Total/NA	Solid	7470A	598637

Analysis Batch: 598957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	6020A	598729
LB 500-598388/1-D	Method Blank	TCLP	Solid	6020A	598729
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	6020A	598729

Analysis Batch: 598970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	TCLP	Solid	6010B	598729
LB 500-598388/1-D	Method Blank	TCLP	Solid	6010B	598729
LCS 500-598729/2-A	Lab Control Sample	Total/NA	Solid	6010B	598729

General Chemistry

Analysis Batch: 597446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 597710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198666-1	3530-34-B01 (0-3)	Total/NA	Solid	9045D	
LCS 500-597710/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-597710/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198666-1	3530-34-B01 (0-3)	81	106	104	97
LCS 500-597090/4	Lab Control Sample	80	91	89	101
LCSD 500-597090/5	Lab Control Sample Dup	78	93	90	100
MB 500-597090/7	Method Blank	85	102	97	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198666-1	3530-34-B01 (0-3)	82	85	78	85	56	111
LCS 500-598737/2-A	Lab Control Sample	89	90	89	105	80	100
MB 500-598737/1-A	Method Blank	91	91	89	100	67	119

Surrogate Legend

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

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

Lab Sample ID: MB 500-597090/7
Matrix: Solid
Analysis Batch: 597090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			05/06/21 11:30	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			05/06/21 11:30	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			05/06/21 11:30	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			05/06/21 11:30	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			05/06/21 11:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			05/06/21 11:30	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			05/06/21 11:30	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			05/06/21 11:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			05/06/21 11:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			05/06/21 11:30	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			05/06/21 11:30	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			05/06/21 11:30	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			05/06/21 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			05/06/21 11:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			05/06/21 11:30	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			05/06/21 11:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			05/06/21 11:30	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			05/06/21 11:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			05/06/21 11:30	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			05/06/21 11:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			05/06/21 11:30	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			05/06/21 11:30	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			05/06/21 11:30	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			05/06/21 11:30	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			05/06/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*75 - 131*		*05/06/21 11:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*05/06/21 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*05/06/21 11:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*05/06/21 11:30*	*1*

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

Lab Sample ID: LCS 500-597090/4
Matrix: Solid
Analysis Batch: 597090

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0435		mg/Kg		87	40 - 150
Benzene	0.0500	0.0492		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0513		mg/Kg		103	67 - 129
Bromoform	0.0500	0.0594		mg/Kg		119	68 - 136
Bromomethane	0.0500	0.0597		mg/Kg		119	70 - 130
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0465		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0529		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0543		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 125
Dibromochloromethane	0.0500	0.0569		mg/Kg		114	69 - 125
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0486		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125
Ethylbenzene	0.0500	0.0549		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0474		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0407		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0435		mg/Kg		87	50 - 140
Styrene	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0476		mg/Kg		95	70 - 122
Tetrachloroethene	0.0500	0.0564		mg/Kg		113	70 - 124
Toluene	0.0500	0.0523		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
Trichloroethene	0.0500	0.0533		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0386		mg/Kg		77	40 - 153
Vinyl chloride	0.0500	0.0488		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*91*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*101*		*75 - 124*

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

Lab Sample ID: LCSD 500-597090/5
Matrix: Solid
Analysis Batch: 597090

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0438		mg/Kg		88	40 - 150	1	30
Benzene			0.0500	0.0499		mg/Kg		100	70 - 125	1	30
Bromodichloromethane			0.0500	0.0522		mg/Kg		104	67 - 129	2	30
Bromoform			0.0500	0.0615		mg/Kg		123	68 - 136	4	30
Bromomethane			0.0500	0.0605		mg/Kg		121	70 - 130	1	30
2-Butanone (MEK)			0.0500	0.0355		mg/Kg		71	47 - 138	16	30
Carbon disulfide			0.0500	0.0473		mg/Kg		95	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0475		mg/Kg		95	75 - 125	2	30
Chlorobenzene			0.0500	0.0539		mg/Kg		108	50 - 150	2	30
Chloroethane			0.0500	0.0573		mg/Kg		115	75 - 125	5	30
Chloroform			0.0500	0.0501		mg/Kg		100	57 - 135	1	30
Chloromethane			0.0500	0.0432		mg/Kg		86	70 - 125	5	30
cis-1,2-Dichloroethene			0.0500	0.0490		mg/Kg		98	70 - 125	2	30
cis-1,3-Dichloropropene			0.0500	0.0539		mg/Kg		108	70 - 125	4	30
Dibromochloromethane			0.0500	0.0585		mg/Kg		117	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0486		mg/Kg		97	70 - 130	0	30
1,1-Dichloroethene			0.0500	0.0492		mg/Kg		98	70 - 120	4	30
1,2-Dichloropropane			0.0500	0.0489		mg/Kg		98	70 - 125	4	30
Ethylbenzene			0.0500	0.0554		mg/Kg		111	61 - 136	1	30
2-Hexanone			0.0500	0.0433		mg/Kg		87	48 - 146	4	30
Methylene Chloride			0.0500	0.0487		mg/Kg		97	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0423		mg/Kg		85	50 - 148	4	30
Methyl tert-butyl ether			0.0500	0.0455		mg/Kg		91	50 - 140	4	30
Styrene			0.0500	0.0558		mg/Kg		112	70 - 125	1	30
1,1,2,2-Tetrachloroethane			0.0500	0.0470		mg/Kg		94	70 - 122	1	30
Tetrachloroethene			0.0500	0.0571		mg/Kg		114	70 - 124	1	30
Toluene			0.0500	0.0534		mg/Kg		107	70 - 125	2	30
trans-1,2-Dichloroethene			0.0500	0.0513		mg/Kg		103	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0529		mg/Kg		106	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0476		mg/Kg		95	70 - 128	3	30
1,1,2-Trichloroethane			0.0500	0.0599		mg/Kg		120	70 - 125	3	30
Trichloroethene			0.0500	0.0549		mg/Kg		110	70 - 125	3	30
Vinyl acetate			0.0500	0.0400		mg/Kg		80	40 - 153	3	30
Vinyl chloride			0.0500	0.0497		mg/Kg		99	70 - 125	2	30
Xylenes, Total			0.100	0.102		mg/Kg		102	53 - 147	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

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

Lab Sample ID: MB 500-598737/1-A
Matrix: Solid
Analysis Batch: 598834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/13/21 18:56	05/14/21 13:51	1

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

Lab Sample ID: MB 500-598737/1-A
Matrix: Solid
Analysis Batch: 598834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/13/21 18:56	05/14/21 13:51	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/13/21 18:56	05/14/21 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*91*		*31 - 166*	*05/13/21 18:56*	*05/14/21 13:51*	*1*
Phenol-d5	*91*		*30 - 153*	*05/13/21 18:56*	*05/14/21 13:51*	*1*
Nitrobenzene-d5	*89*		*37 - 147*	*05/13/21 18:56*	*05/14/21 13:51*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*05/13/21 18:56*	*05/14/21 13:51*	*1*
2,4,6-Tribromophenol	*67*		*31 - 143*	*05/13/21 18:56*	*05/14/21 13:51*	*1*
Terphenyl-d14	*119*		*42 - 157*	*05/13/21 18:56*	*05/14/21 13:51*	*1*

Lab Sample ID: LCS 500-598737/2-A
Matrix: Solid
Analysis Batch: 598834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.16		mg/Kg		87	56 - 122
Bis(2-chloroethyl)ether	1.33	1.09		mg/Kg		82	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.09		mg/Kg		82	61 - 110
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	62 - 110
2-Methylphenol	1.33	1.12		mg/Kg		84	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.35		mg/Kg		101	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		84	56 - 118
Hexachloroethane	1.33	1.01		mg/Kg		76	60 - 114
2-Chlorophenol	1.33	1.13		mg/Kg		84	64 - 110
Nitrobenzene	1.33	1.19		mg/Kg		89	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.14		mg/Kg		85	60 - 112
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
Isophorone	1.33	1.15		mg/Kg		86	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		88	60 - 110
Hexachlorobutadiene	1.33	1.17		mg/Kg		87	56 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2,4-Dichlorophenol	1.33	1.16		mg/Kg		87	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

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

Lab Sample ID: LCS 500-598737/2-A
Matrix: Solid
Analysis Batch: 598834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.09		mg/Kg		82	30 - 150
2,4,6-Trichlorophenol	1.33	1.16		mg/Kg		87	57 - 120
2,4,5-Trichlorophenol	1.33	1.28		mg/Kg		96	50 - 120
Hexachlorocyclopentadiene	1.33	0.873		mg/Kg		65	10 - 133
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Nitroaniline	1.33	1.29		mg/Kg		97	57 - 124
2-Chloronaphthalene	1.33	1.18		mg/Kg		88	69 - 114
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.17		mg/Kg		88	60 - 120
3-Nitroaniline	1.33	0.899		mg/Kg		67	40 - 122
Dimethyl phthalate	1.33	1.19		mg/Kg		89	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		21	10 - 100
Acenaphthylene	1.33	1.23		mg/Kg		92	68 - 120
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		95	69 - 124
Acenaphthene	1.33	1.21		mg/Kg		91	65 - 124
Dibenzofuran	1.33	1.27		mg/Kg		96	66 - 115
4-Nitrophenol	2.67	2.27		mg/Kg		85	30 - 122
Fluorene	1.33	1.21		mg/Kg		91	62 - 120
4-Nitroaniline	1.33	0.952		mg/Kg		71	60 - 160
4-Bromophenyl phenyl ether	1.33	1.15		mg/Kg		86	68 - 118
Hexachlorobenzene	1.33	1.22		mg/Kg		91	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.21		mg/Kg		90	62 - 119
Pentachlorophenol	2.67	1.63		mg/Kg		61	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.12		mg/Kg		42	10 - 110
Phenanthrene	1.33	1.24		mg/Kg		93	62 - 120
Anthracene	1.33	1.22		mg/Kg		92	70 - 114
Carbazole	1.33	1.39		mg/Kg		105	65 - 142
Di-n-butyl phthalate	1.33	1.18		mg/Kg		89	65 - 120
Fluoranthene	1.33	1.28		mg/Kg		96	62 - 120
Pyrene	1.33	1.25		mg/Kg		94	61 - 128
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	71 - 129
Benzo[a]anthracene	1.33	1.12		mg/Kg		84	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	0.937		mg/Kg		70	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	72 - 131
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	68 - 134
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	68 - 127
Benzo[a]pyrene	1.33	1.38		mg/Kg		103	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.34		mg/Kg		100	68 - 130
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	64 - 131
Benzo[g,h,i]perylene	1.33	1.24		mg/Kg		93	72 - 131
3 & 4 Methylphenol	1.33	1.10		mg/Kg		83	57 - 120

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

Lab Sample ID: LCS 500-598737/2-A
Matrix: Solid
Analysis Batch: 598834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598737

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*89*		*31 - 166*
Phenol-d5	*90*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*105*		*43 - 145*
2,4,6-Tribromophenol	*80*		*31 - 143*
Terphenyl-d14	*100*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-597813/1-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Barium	<1.0		1.0	0.11	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Boron	<5.0		5.0	0.47	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Cadmium	0.0423	J	0.20	0.036	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Calcium	29.0		20	3.4	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Copper	<1.0		1.0	0.28	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Iron	10.8	J	20	10	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Lead	<0.50		0.50	0.23	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Magnesium	5.09	J	10	5.0	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Manganese	0.281	J	1.0	0.15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Potassium	<50		50	18	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Silver	<0.50		0.50	0.13	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Sodium	15.5	J	100	15	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/10/21 09:17	05/12/21 19:03	1
Zinc	1.03	J	2.0	0.88	mg/Kg		05/10/21 09:17	05/12/21 19:03	1

Lab Sample ID: LCS 500-597813/2-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		mg/Kg		102	80 - 120
Arsenic	10.0	9.73		mg/Kg		97	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.82		mg/Kg		96	80 - 120
Boron	100	89.0		mg/Kg		89	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120

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

Lab Sample ID: LCS 500-597813/2-A
Matrix: Solid
Analysis Batch: 598495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	114		mg/Kg		114	80 - 120
Lead	10.0	9.52		mg/Kg		95	80 - 120
Magnesium	1000	970		mg/Kg		97	80 - 120
Manganese	50.0	48.3		mg/Kg		97	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	9.12		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	9.54		mg/Kg		95	80 - 120
Vanadium	50.0	50.1		mg/Kg		100	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-598729/2-A
Matrix: Solid
Analysis Batch: 598970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.529		mg/L		106	80 - 120
Beryllium	0.0500	0.0471		mg/L		94	80 - 120
Boron	1.00	0.890		mg/L		89	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.535		mg/L		107	80 - 120
Iron	1.00	1.19		mg/L		119	80 - 120
Lead	0.100	0.0950		mg/L		95	80 - 120
Nickel	0.500	0.524		mg/L		105	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Silver	0.0500	0.0553		mg/L		111	80 - 120
Zinc	0.500	0.577		mg/L		115	80 - 120

Lab Sample ID: LB 500-598388/1-D
Matrix: Solid
Analysis Batch: 598970

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 598729

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/13/21 18:06	05/14/21 11:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/13/21 18:06	05/14/21 11:50	1
Boron	<0.50		0.50	0.050	mg/L		05/13/21 18:06	05/14/21 11:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/13/21 18:06	05/14/21 11:50	1
Chromium	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Iron	<0.40		0.40	0.20	mg/L		05/13/21 18:06	05/14/21 11:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/13/21 18:06	05/14/21 11:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Selenium	<0.050		0.050	0.020	mg/L		05/13/21 18:06	05/14/21 11:50	1

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

Lab Sample ID: LB 500-598388/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 598970 — **Prep Batch: 598729**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		05/13/21 18:06	05/14/21 11:50	1
Zinc	<0.50		0.50	0.020	mg/L		05/13/21 18:06	05/14/21 11:50	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-598729/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598957 — **Prep Batch: 598729**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.531	^1+ ^+	mg/L		106	80 - 120
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LB 500-598388/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 598957 — **Prep Batch: 598729**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+ ^+	0.0060	0.0060	mg/L		05/13/21 18:06	05/14/21 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/13/21 18:06	05/14/21 12:50	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-598637/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598908 — **Prep Batch: 598637**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:20	1

Lab Sample ID: LCS 500-598637/14-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598908 — **Prep Batch: 598637**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-598388/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 598908 — **Prep Batch: 598637**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/13/21 11:25	05/14/21 09:23	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-598078/12-A
Matrix: Solid
Analysis Batch: 598324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/11/21 14:00	05/12/21 08:47	1

Lab Sample ID: LCS 500-598078/13-A
Matrix: Solid
Analysis Batch: 598324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598078

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.185		mg/Kg		111	80 - 120		

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198666-1

Client Sample ID: 3530-34-B01 (0-3)

Date Collected: 05/04/21 09:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198666-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6010B		1	598970	05/14/21 12:33	JJB	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	3010A			598729	05/13/21 18:06	LMN	TAL CHI
TCLP	Analysis	6020A		1	598957	05/14/21 12:52	FXG	TAL CHI
TCLP	Leach	1311			598388	05/12/21 15:13	CMS	TAL CHI
TCLP	Prep	7470A			598637	05/13/21 11:25	MJG	TAL CHI
TCLP	Analysis	7470A		1	598908	05/14/21 09:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	597710	05/07/21 19:29	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	597446	05/07/21 11:47	LWN	TAL CHI

Client Sample ID: 3530-34-B01 (0-3)

Date Collected: 05/04/21 09:50
Date Received: 05/05/21 13:30

Lab Sample ID: 500-198666-1

Matrix: Solid
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			597056	05/05/21 17:41	WRE	TAL CHI
Total/NA	Analysis	8260B		1	597090	05/06/21 19:43	PMF	TAL CHI
Total/NA	Prep	3541			598737	05/13/21 18:56	ACK	TAL CHI
Total/NA	Analysis	8270D		1	598834	05/14/21 17:23	AJD	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	598495	05/12/21 19:53	EEN	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		2	598684	05/13/21 11:50	JJB	TAL CHI
Total/NA	Prep	3050B			597813	05/10/21 09:17	BDE	TAL CHI
Total/NA	Analysis	6010B		5	598684	05/13/21 11:54	JJB	TAL CHI
Total/NA	Prep	7471B			598078	05/11/21 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	598324	05/12/21 09:27	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198666-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright, Richard	Carrier Tracking No(s):	COC No:
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International inc.	PWSID:			Job #: 500-198666

Address: 33 West Monroe Street, Suite 1825	Due Date Requested:	Analysis Requested
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL, 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesigni com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #:	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198666 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note.
			Preservation Code:											
1 3530-34-B01 (0-3)	5-4-21	0950	G	S			XX	XX	XX	XX	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: MTA	Date/Time: 5-5-21 1330	Company: EDI	Received by: [signature]	Date/Time: 5/6/21 1330	Company: ETACHI
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.3-75.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-198666-1

Login Number: 198666
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198109-1
Client Project/Site: IDOT - 172-027 - WO 93

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer

Authorized for release by:
5/6/2021 5:03:38 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

Table of Contents

Job ID: 500-198109-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198109-1

Receipt
The sample was received on 4/23/2021 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-596304 and analytical batch 500-596895 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline, Carbazole and N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals
Method 6010B: The interference check standard solution (ICSA) associated with batch 500-596470 was outside the acceptable limits for Barium. These results are due to vendor stock contamination and are not indicative of a matrix interference
3530-35-B04 (0-4) (500-198109-1)

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

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

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198109-1

Client Sample ID: 3530-35-B04 (0-4)

Lab Sample ID: 500-198109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.73	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	59	^6+	0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	0.69	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2300	B	6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	170		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	900		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.37		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Sodium	63		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.073		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Environmental Design International, Inc. Job ID: 500-198109-1
Project/Site: IDOT - 172-027 - WO 93

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198109-1	3530-35-B04 (0-4)	Solid	04/22/21 10:45	04/23/21 12:00	

Client Sample ID: 3530-35-B04 (0-4)
Date Collected: 04/22/21 10:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198109-1
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	04/23/21 17:32	04/27/21 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*04/23/21 17:32*	*04/27/21 13:45*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*04/23/21 17:32*	*04/27/21 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*04/23/21 17:32*	*04/27/21 13:45*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*04/23/21 17:32*	*04/27/21 13:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1

Client: Environmental Design International, Inc.
Job ID: 500-198109-1
Project/Site: IDOT - 172-027 - WO 93

Client Sample ID: 3530-35-B04 (0-4)
Lab Sample ID: 500-198109-1
Date Collected: 04/22/21 10:45
Matrix: Solid
Date Received: 04/23/21 12:00
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
3-Nitroaniline	<0.41	*+	0.41	0.13	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
N-Nitrosodiphenylamine	<0.21	*+	0.21	0.049	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Carbazole	<0.21	*+	0.21	0.10	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1

Client Sample ID: 3530-35-B04 (0-4)
Date Collected: 04/22/21 10:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198109-1
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
3,3'-Dichlorobenzidine	<0.21	*+	0.21	0.058	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/02/21 14:25	05/06/21 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*79*		*31 - 166*	*05/02/21 14:25*	*05/06/21 03:34*	*1*
Phenol-d5	*79*		*30 - 153*	*05/02/21 14:25*	*05/06/21 03:34*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*05/02/21 14:25*	*05/06/21 03:34*	*1*
2-Fluorobiphenyl	*71*		*43 - 145*	*05/02/21 14:25*	*05/06/21 03:34*	*1*
2,4,6-Tribromophenol	*61*		*31 - 143*	*05/02/21 14:25*	*05/06/21 03:34*	*1*
Terphenyl-d14	*110*		*42 - 157*	*05/02/21 14:25*	*05/06/21 03:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.73**	**J**	1.2	0.24	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Arsenic	**11**		0.61	0.21	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Barium	**59**	**^6+**	0.61	0.070	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Beryllium	**0.63**		0.24	0.057	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Boron	**0.69**	**J**	3.0	0.28	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Cadmium	**0.12**	**B**	0.12	0.022	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Calcium	**4100**	**B**	12	2.1	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Chromium	**17**		0.61	0.30	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Cobalt	**4.9**		0.30	0.080	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Copper	**16**		0.61	0.17	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Iron	**23000**		12	6.3	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Lead	**16**		0.30	0.14	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Magnesium	**2300**	**B**	6.1	3.0	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Manganese	**170**		0.61	0.088	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Nickel	**12**		0.61	0.18	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Potassium	**900**		30	11	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Selenium	**0.43**	**J**	0.61	0.36	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Silver	**0.37**		0.30	0.079	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Sodium	**63**		61	9.0	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Thallium	**0.38**	**J**	0.61	0.30	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Vanadium	**25**		0.30	0.072	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1
Zinc	**55**		1.2	0.54	mg/Kg	☼	05/02/21 10:26	05/03/21 13:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.27**	**J**	0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:53	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:53	1

Client Sample ID: 3530-35-B04 (0-4) **Lab Sample ID: 500-198109-1**
Date Collected: 04/22/21 10:45 **Matrix: Solid**
Date Received: 04/23/21 12:00 **Percent Solids: 78.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0030**	**J**	0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:53	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:53	1
Iron	**0.23**	**J**	0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:53	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 12:02	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:53	1
Zinc	**0.044**	**J**	0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.020	0.0066	mg/Kg	☼	05/03/21 14:30	05/04/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			04/28/21 20:52	1

Definitions/Glossary

Client: Environmental Design International, Inc. Job ID: 500-198109-1
Project/Site: IDOT - 172-027 - WO 93

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 594965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	5035	

Analysis Batch: 595329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	8260B	594965
MB 500-595329/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-595329/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-595329/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 596304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	3541	
MB 500-596304/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 596895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-596304/1-A	Method Blank	Total/NA	Solid	8270D	596304
LCS 500-596304/2-A	Lab Control Sample	Total/NA	Solid	8270D	596304

Analysis Batch: 597003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	8270D	596304

Metals

Prep Batch: 596298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	3050B	
MB 500-596298/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 596362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	1311	
LB 500-596362/1-B	Method Blank	TCLP	Solid	1311	
LB 500-596362/2-B	Method Blank	TCLP	Solid	1311	
500-198109-1 MS	3530-35-B04 (0-4)	TCLP	Solid	1311	
500-198109-1 MSD	3530-35-B04 (0-4)	TCLP	Solid	1311	
500-198109-1 DU	3530-35-B04 (0-4)	TCLP	Solid	1311	

Prep Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	7471B	
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 596470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	6010B	596298

Metals (Continued)

Analysis Batch: 596470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-596298/1-A	Method Blank	Total/NA	Solid	6010B	596298
LCS 500-596298/2-A	Lab Control Sample	Total/NA	Solid	6010B	596298

Prep Batch: 596533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	3010A	596362
LB 500-596362/1-B	Method Blank	TCLP	Solid	3010A	596362
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 596661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	7470A	596362
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596362
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	
500-198109-1 MS	3530-35-B04 (0-4)	TCLP	Solid	7470A	596362
500-198109-1 MSD	3530-35-B04 (0-4)	TCLP	Solid	7470A	596362
500-198109-1 DU	3530-35-B04 (0-4)	TCLP	Solid	7470A	596362

Analysis Batch: 596682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	7471B	596427
MB 500-596427/12-A	Method Blank	Total/NA	Solid	7471B	596427
LCS 500-596427/13-A	Lab Control Sample	Total/NA	Solid	7471B	596427

Analysis Batch: 596703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	6020A	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6020A	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6020A	596533

Analysis Batch: 596873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

Analysis Batch: 596952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	7470A	596661
LB 500-596362/2-B	Method Blank	TCLP	Solid	7470A	596661
MB 500-596661/12-A	Method Blank	Total/NA	Solid	7470A	596661
LCS 500-596661/15-A	Lab Control Sample	Total/NA	Solid	7470A	596661
500-198109-1 MS	3530-35-B04 (0-4)	TCLP	Solid	7470A	596661
500-198109-1 MSD	3530-35-B04 (0-4)	TCLP	Solid	7470A	596661
500-198109-1 DU	3530-35-B04 (0-4)	TCLP	Solid	7470A	596661

Analysis Batch: 596986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	TCLP	Solid	6010B	596533
LB 500-596362/1-B	Method Blank	TCLP	Solid	6010B	596533

Metals (Continued)

Analysis Batch: 596986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-596533/2-A	Lab Control Sample	Total/NA	Solid	6010B	596533

General Chemistry

Analysis Batch: 595763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	9045D	
LCS 500-595763/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-595763/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 595815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198109-1	3530-35-B04 (0-4)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198109-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-198109-1	3530-35-B04 (0-4)	84	100	98	96
LCS 500-595329/4	Lab Control Sample	81	92	88	100
LCSD 500-595329/5	Lab Control Sample Dup	80	92	89	99
MB 500-595329/7	Method Blank	86	98	94	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-198109-1	3530-35-B04 (0-4)	79	79	68	71	61	110
LCS 500-596304/2-A	Lab Control Sample	99	105	89	87	89	89
MB 500-596304/1-A	Method Blank	93	94	78	88	84	82

Surrogate Legend

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

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

Lab Sample ID: MB 500-595329/7
Matrix: Solid
Analysis Batch: 595329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			04/27/21 11:29	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			04/27/21 11:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			04/27/21 11:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			04/27/21 11:29	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			04/27/21 11:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			04/27/21 11:29	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			04/27/21 11:29	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			04/27/21 11:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			04/27/21 11:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			04/27/21 11:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			04/27/21 11:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			04/27/21 11:29	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			04/27/21 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			04/27/21 11:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			04/27/21 11:29	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			04/27/21 11:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			04/27/21 11:29	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			04/27/21 11:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			04/27/21 11:29	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			04/27/21 11:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			04/27/21 11:29	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			04/27/21 11:29	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			04/27/21 11:29	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			04/27/21 11:29	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			04/27/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*		*04/27/21 11:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*04/27/21 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*04/27/21 11:29*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*04/27/21 11:29*	*1*

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

Lab Sample ID: LCS 500-595329/4
Matrix: Solid
Analysis Batch: 595329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0419		mg/Kg		84	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0519		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0375		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0435		mg/Kg		87	70 - 129
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0488		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0494		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0395		mg/Kg		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0535		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0372		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0448		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0410		mg/Kg		82	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0435		mg/Kg		87	70 - 128
1,1,2-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0919		mg/Kg		92	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: LCSD 500-595329/5
Matrix: Solid
Analysis Batch: 595329

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0500	0.0453		mg/Kg		91	40 - 150	8	30
Benzene			0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0505		mg/Kg		101	67 - 129	4	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	7	30
Bromomethane			0.0500	0.0553		mg/Kg		111	70 - 130	5	30
2-Butanone (MEK)			0.0500	0.0372		mg/Kg		74	47 - 138	1	30
Carbon disulfide			0.0500	0.0456		mg/Kg		91	70 - 129	5	30
Carbon tetrachloride			0.0500	0.0452		mg/Kg		90	75 - 125	3	30
Chlorobenzene			0.0500	0.0506		mg/Kg		101	50 - 150	4	30
Chloroethane			0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chloroform			0.0500	0.0484		mg/Kg		97	57 - 135	4	30
Chloromethane			0.0500	0.0419		mg/Kg		84	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0473		mg/Kg		95	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	70 - 125	4	30
Dibromochloromethane			0.0500	0.0553		mg/Kg		111	69 - 125	3	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	5	30
1,1-Dichloroethene			0.0500	0.0466		mg/Kg		93	70 - 120	3	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	3	30
2-Hexanone			0.0500	0.0399		mg/Kg		80	48 - 146	7	30
Methylene Chloride			0.0500	0.0468		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0411		mg/Kg		82	50 - 148	8	30
Methyl tert-butyl ether			0.0500	0.0435		mg/Kg		87	50 - 140	6	30
Styrene			0.0500	0.0513		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane			0.0500	0.0453		mg/Kg		91	70 - 122	10	30
Tetrachloroethene			0.0500	0.0555		mg/Kg		111	70 - 124	2	30
Toluene			0.0500	0.0503		mg/Kg		101	70 - 125	3	30
trans-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0499		mg/Kg		100	70 - 125	4	30
1,1,1-Trichloroethane			0.0500	0.0461		mg/Kg		92	70 - 128	6	30
1,1,2-Trichloroethane			0.0500	0.0560		mg/Kg		112	70 - 125	3	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	2	30
Vinyl acetate			0.0500	0.0429		mg/Kg		86	40 - 153	6	30
Vinyl chloride			0.0500	0.0462		mg/Kg		92	70 - 125	3	30
Xylenes, Total			0.100	0.0952		mg/Kg		95	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*75 - 131*
Dibromofluoromethane	*92*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Toluene-d8 (Surr)	*99*		*75 - 124*

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

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

Lab Sample ID: MB 500-596304/1-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		05/02/21 14:25	05/05/21 10:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		05/02/21 14:25	05/05/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*93*		*31 - 166*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Phenol-d5	*94*		*30 - 153*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
2,4,6-Tribromophenol	*84*		*31 - 143*	*05/02/21 14:25*	*05/05/21 10:43*	*1*
Terphenyl-d14	*82*		*42 - 157*	*05/02/21 14:25*	*05/05/21 10:43*	*1*

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.03		mg/Kg		77	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.17		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.23		mg/Kg		93	58 - 120

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198109-1

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	1.15		mg/Kg		86	10 - 133
2-Methylnaphthalene	1.33	1.14		mg/Kg		85	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.11		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	3.05	E *+	mg/Kg		229	40 - 122
Dimethyl phthalate	1.33	1.17		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		17	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.24		mg/Kg		93	69 - 124
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.54		mg/Kg		116	60 - 160
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Hexachlorobenzene	1.33	1.19		mg/Kg		89	63 - 124
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
N-Nitrosodiphenylamine	1.33	1.58	*+	mg/Kg		118	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.877		mg/Kg		33	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Anthracene	1.33	1.21		mg/Kg		90	70 - 114
Carbazole	1.33	2.55	E *+	mg/Kg		191	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.23		mg/Kg		92	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Chrysene	1.33	1.22		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	1.78	*+	mg/Kg		133	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.31		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		91	68 - 127
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

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

Lab Sample ID: LCS 500-596304/2-A
Matrix: Solid
Analysis Batch: 596895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596304

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*99*		*31 - 166*
Phenol-d5	*105*		*30 - 153*
Nitrobenzene-d5	*89*		*37 - 147*
2-Fluorobiphenyl	*87*		*43 - 145*
2,4,6-Tribromophenol	*89*		*31 - 143*
Terphenyl-d14	*89*		*42 - 157*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-596298/1-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Arsenic	<1.0		1.0	0.34	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Barium	<1.0	^6+	1.0	0.11	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Beryllium	<0.40		0.40	0.093	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Boron	<5.0		5.0	0.47	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cadmium	0.0585	J	0.20	0.036	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Calcium	9.00	J	20	3.4	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Chromium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Cobalt	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Copper	<1.0		1.0	0.28	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Iron	<20		20	10	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Lead	<0.50		0.50	0.23	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Magnesium	5.59	J	10	5.0	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Manganese	<1.0		1.0	0.15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Nickel	<1.0		1.0	0.29	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Potassium	<50		50	18	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Selenium	<1.0		1.0	0.59	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Silver	<0.50		0.50	0.13	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Sodium	<100		100	15	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Thallium	<1.0		1.0	0.50	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Vanadium	<0.50		0.50	0.12	mg/Kg		05/02/21 10:26	05/03/21 12:01	1
Zinc	<2.0		2.0	0.88	mg/Kg		05/02/21 10:26	05/03/21 12:01	1

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	10.0	9.78		mg/Kg		98	80 - 120
Barium	200	205	^6+	mg/Kg		103	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	93.5		mg/Kg		94	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120
Calcium	1000	944		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 500-596298/2-A
Matrix: Solid
Analysis Batch: 596470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.79		mg/Kg		98	80 - 120
Magnesium	1000	986		mg/Kg		99	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	9.05		mg/Kg		91	80 - 120
Silver	5.00	4.79		mg/Kg		96	80 - 120
Sodium	1000	1070		mg/Kg		107	80 - 120
Thallium	10.0	9.83		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0993		mg/L		99	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.589		mg/L		118	80 - 120

Lab Sample ID: LCS 500-596533/2-A
Matrix: Solid
Analysis Batch: 596986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: LB 500-596362/1-B
Matrix: Solid
Analysis Batch: 596873

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 596533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/21 19:13	05/04/21 18:13	1
Boron	<0.50		0.50	0.050	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/21 19:13	05/04/21 18:13	1

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

Lab Sample ID: LB 500-596362/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 596873 **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Iron	<0.40		0.40	0.20	mg/L		05/03/21 19:13	05/04/21 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/21 19:13	05/04/21 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/21 19:13	05/04/21 18:13	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/21 19:13	05/04/21 18:13	1

Lab Sample ID: LB 500-596362/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 596986 **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.050		0.050	0.020	mg/L		05/03/21 19:13	05/05/21 11:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-596533/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596703 **Prep Batch: 596533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-596362/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 596703 **Prep Batch: 596533**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/21 19:13	05/04/21 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/21 19:13	05/04/21 11:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-596661/12-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596952 **Prep Batch: 596661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:00	1

Lab Sample ID: LCS 500-596661/15-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 596952 **Prep Batch: 596661**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		97	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-596362/2-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/21 09:30	05/05/21 09:04	1

Lab Sample ID: 500-198109-1 MS — **Client Sample ID: 3530-35-B04 (0-4)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000940		mg/L		94	75 - 125

Lab Sample ID: 500-198109-1 MSD — **Client Sample ID: 3530-35-B04 (0-4)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000964		mg/L		96	75 - 125	3	20

Lab Sample ID: 500-198109-1 DU — **Client Sample ID: 3530-35-B04 (0-4)**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 596952 — **Prep Batch: 596661**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-596427/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		05/03/21 14:30	05/04/21 08:04	1

Lab Sample ID: LCS 500-596427/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596682 — **Prep Batch: 596427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - 172-027 - WO 93

Job ID: 500-198109-1

Client Sample ID: 3530-35-B04 (0-4)
Date Collected: 04/22/21 10:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198109-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596986	05/05/21 12:02	JJB	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6010B		1	596873	05/04/21 18:53	EEN	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	3010A			596533	05/03/21 19:13	LMN	TAL CHI
TCLP	Analysis	6020A		1	596703	05/04/21 11:48	FXG	TAL CHI
TCLP	Leach	1311			596362	04/30/21 14:30	OAJ	TAL CHI
TCLP	Prep	7470A			596661	05/04/21 09:30	MJG	TAL CHI
TCLP	Analysis	7470A		1	596952	05/05/21 09:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	595763	04/28/21 20:52	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	595815	04/29/21 08:42	LWN	TAL CHI

Client Sample ID: 3530-35-B04 (0-4)
Date Collected: 04/22/21 10:45
Date Received: 04/23/21 12:00

Lab Sample ID: 500-198109-1
Matrix: Solid
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			594965	04/23/21 17:32	WRE	TAL CHI
Total/NA	Analysis	8260B		1	595329	04/27/21 13:45	PMF	TAL CHI
Total/NA	Prep	3541			596304	05/02/21 14:25	JP1	TAL CHI
Total/NA	Analysis	8270D		1	597003	05/06/21 03:34	SS	TAL CHI
Total/NA	Prep	3050B			596298	05/02/21 10:26	LMN	TAL CHI
Total/NA	Analysis	6010B		1	596470	05/03/21 13:36	JJB	TAL CHI
Total/NA	Prep	7471B			596427	05/03/21 14:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	596682	05/04/21 08:28	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-198109-1
Project/Site: IDOT - 172-027 - WO 93

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Fischer	Lab PM: Wright Richard	Carrier Tracking No(s):	COC No.
Client Contact: Michael Fischer	Phone: 847-312-7670	E-Mail: Richard.Wright@Eurofinset.com	State of Origin: Illinois	Page: 1 of 1
Company: Environmental Design International Inc	PWSID:			Job #: 500-198109

Address: 33 West Monroe Street Suite 1825	Due Date Requested:	Analysis Requested
City: Chicago	TAT Requested (days): Standard	
State, Zip: IL 60603-5326	Compliance Project: Δ Yes Δ No	
Phone: 312-345-1400	PO #: 945 033	
Email: mfischer@envdesign.com	WO #: 172-027 - WO 93	
Project Name: IDOT - 172-027 - WO 93	Lab Project #:	
Site: FAP 42 / FAP 841 (IL 127 / IL 154)		

500-198109 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	SVOC	Metals	TCLP Metals	pH	Solids	Total Number of containers	Special Instructions/Note
			Preservation Code:											
1 3530-35-B04 (0-4)	4-22-21	1045	G	S			X	X	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
MTF	4-23-21 1200	EDI			
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		4.3 → 3.5

Ver 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-198109-1

Login Number: 198109 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-15 (Vacant Lot)

Date: 04/22/2021
Direction: West
Time: 1544 hrs

Description: Location of boring 3530-15-B01.

Site: ISGS #3530-16 (Vacant Lot)

Date: 04/22/2021
Direction: North
Time: 1545 hrs

Description: Location of site ISGS #3530-16 and boring locations.

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-18 (Shamrock Realty)

Date: 04/22/2021
Direction: Northeast
Time: 1600 hrs

Description: Location of boring 3530-18-B01.

Site: ISGS #3530-29 (Shear Attitude Hair & Nail Salon)

Date: 04/22/2021
Direction: South
Time: 1615 hrs

Description: Location of boring 3530-29-B01.

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-30 (Commercial Unit and Residential Space)

Date: 04/22/2021
Direction: South
Time: 1645 hrs

Description: Location of boring 3530-30-B01.

Site: ISGS #3530-31 (Parking Lot)

Date: 05/03/2021
Direction: Southeast
Time: 1330 hrs

Description: Location of boring 3530-31-B02.

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-34 (Loos Law Office)

Date: 05/04/2021
Direction: West
Time: 0900 hrs

Description: Location of boring 3530-34-B01.

Site: ISGS #3530-35 (McDonald's)

Date: 05/04/2021
Direction: North
Time: 0815 hrs

Description: Location of boring 3530-35-B03.

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-37 (Vacant Lot)

Date: 05/03/2021
Direction: West
Time: 1525 hrs

Description: Location of boring 3530-37-B02.

Site: ISGS #3530-39 (Vacant Land)

Date: 05/04/2021
Direction: North
Time: 0915 hrs

Description: Location of boring 3530-39-B01.

PHOTOGRAPHIC RECORD

Work Order No: 093
Route: FAP 42/FAP 841 (IL 127/IL154)
Contract Number: PTB 172-027
IDOT Project Number: D-99-011-018

Site: ISGS #3530-40 (Perry County Jail and Sheriff's Office)

Date: 04/22/2021
Direction: North
Time: 1125 hrs

Description: Location of boring 3530-40-B01.

Site: ISGS #3530-47 (Dairy Queen)

Date: 04/22/2021
Direction: South
Time: 1030 hrs

Description: Location of boring 3530-47-B01.

APPENDIX

E UNCONTAMINATED SOIL CERTIFICATION FORMS