



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
43W400 block of US 20

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08851 Longitude: -88.46128
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08851 Longitude: -88.46128

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-1-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-1. SEE FIGURE 2 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081486

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217.785.4246

Steven Gobelman

Printed Name:

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

8/8/19

Date:





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I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

NE and NW corner IL 47 & US 20/IL 72 (North Junction)

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08870 Longitude: -88.45635

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08870 Longitude: -88.45635

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-1-B03 THROUGH -B07 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-1. SEE FIGURES 2 THROUGH 4 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081486

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

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Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14
 Date:





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This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

North of IL 72 from Tyler Creek to East Project Limit

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08872 Longitude: -88.45379

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

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Zip Code: 60196-1096 Phone: 847-705-4101

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Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

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Project Name: FAU 345 (US Route 20) - North Junction
 Latitude: 42.08872 Longitude: -88.45379

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 1467V-1-B08 WAS SAMPLED ADJACENT TO ISGS SITE 1467V-1. SEE FIGURE 3 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081486

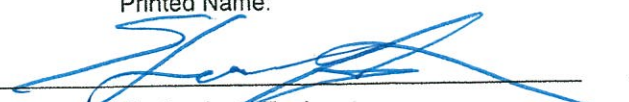
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

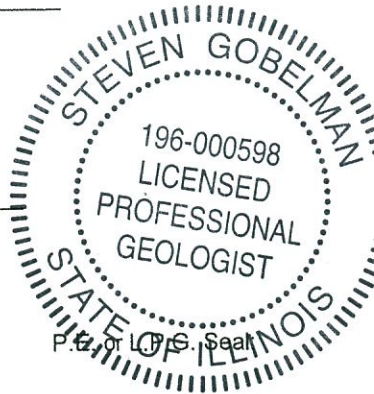
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217.785.4246

Steven Gobelman
 Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-1

Agricultural Land

Sample ID	1467V-1-B01	1467V-1-B02-1	1467V-1-B02-2	1467V-1-B03-1	1467V-1-B03-2	1467V-1-B04-1	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-5	5-10	0-5	5-10	0-7.5						
Sample Date	8/27/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/27/2013						
PID	0	0	0	0	0	0						
Sample pH	8.62	8.35	8.17	7.81	7.77	7.75						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

Sample ID	1467V-1-B04-2	1467V-1-B05-1	1467V-1-B05-2	1467V-1-B06-1	1467V-1-B06-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	7.5-15	0-5	5-10	0-5	5-10						
Sample Date	8/27/2013	8/27/2013	8/27/2013	8/27/2013	8/27/2013						
PID	0	0	0	0	0						
Sample pH	7.67	7.68	7.89	7.63	7.94						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	1467V-1-B07-1	1467V-1-B07-1 DU	1467V-1-B07-2	1467V-1-B08-1	1467V-1-B08-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	5-10	0-5	5-10						
Sample Date	8/27/2013	8/27/2013	8/27/2013	8/27/2013	8/27/2013						
PID	0	0	0	0	0						
Sample pH	7.79	7.72	8.13	7.88	8.1						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081486

Dear Colleen Grey:

TEKLAB, INC received 18 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-001

Client Sample ID: 1467V-1-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13.4	%	1	08/29/2013 12:41	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86.6	%	1	08/29/2013 12:41	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.35		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0506	mg/L	1	09/06/2013 16:09	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0529	mg/L	1	09/03/2013 14:09	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:09	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:09	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:09	91540
Chromium	NELAP	0.004	0.01	J	0.0069	mg/L	1	09/03/2013 14:09	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:09	91540
Iron	NELAP	0.007	0.02	X	6.43	mg/L	1	09/03/2013 14:09	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:09	91540
Manganese	NELAP	0.0016	0.005		0.0583	mg/L	1	09/03/2013 14:09	91540
Nickel	NELAP	0.0033	0.01	J	0.0067	mg/L	1	09/03/2013 14:09	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:09	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:09	91540
Zinc	NELAP	0.0021	0.01		0.0234	mg/L	1	09/03/2013 14:09	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 8:46	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:23	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:27	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		7330	mg/Kg-dry	1	09/03/2013 17:46	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 21:11	91500
Arsenic	NELAP	1.23	2.45		5.25	mg/Kg-dry	1	08/30/2013 14:13	91484
Barium	NELAP	0.25	0.49		32.3	mg/Kg-dry	1	08/30/2013 14:13	91484
Beryllium	NELAP	0.05	0.1		0.35	mg/Kg-dry	1	08/30/2013 14:13	91484
Boron	NELAP	0.98	1.96		10.1	mg/Kg-dry	1	08/30/2013 14:13	91484
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 14:13	91484
Calcium	NELAP	2.45	4.9		60600	mg/Kg-dry	1	08/30/2013 14:13	91484
Chromium	NELAP	0.49	0.98		10.2	mg/Kg-dry	1	08/30/2013 14:13	91484
Cobalt	NELAP	0.49	0.98		4.23	mg/Kg-dry	1	08/30/2013 14:13	91484
Copper	NELAP	0.49	0.98		11.7	mg/Kg-dry	1	08/30/2013 14:13	91484
Iron	NELAP	0.98	1.96		11300	mg/Kg-dry	1	08/30/2013 14:13	91484
Lead	NELAP	1.96	3.92		6.51	mg/Kg-dry	1	08/30/2013 14:13	91484
Magnesium	NELAP	0.49	0.98	B	32400	mg/Kg-dry	1	08/30/2013 14:13	91484
Manganese	NELAP	0.25	0.49		307	mg/Kg-dry	1	08/30/2013 14:13	91484
Nickel	NELAP	0.49	0.98		11	mg/Kg-dry	1	08/30/2013 14:13	91484
Potassium	NELAP	4.9	9.8		1560	mg/Kg-dry	1	08/30/2013 14:13	91484
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 14:13	91484
Sodium	NELAP	2.45	4.9		301	mg/Kg-dry	1	08/30/2013 14:13	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-001

Client Sample ID: 1467V-1-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 14:13	91484
Vanadium	NELAP	0.49	0.98		15.8	mg/Kg-dry	1	08/30/2013 14:13	91484
Zinc	NELAP	0.49	0.98		26.6	mg/Kg-dry	1	09/03/2013 17:46	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545		< 0.545	mg/Kg-dry	1	08/30/2013 10:29	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.014	mg/Kg-dry	1	08/30/2013 10:06	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
1,2-Dichlorobenzene	NELAP	0.184	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
1,3-Dichlorobenzene	NELAP	0.194	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
1,4-Dichlorobenzene	NELAP	0.184	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4,5-Trichlorophenol	NELAP	0.11	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4,6-Trichlorophenol	NELAP	0.146	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4-Dichlorophenol	NELAP	0.14	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4-Dimethylphenol	NELAP	0.147	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,4-Dinitrotoluene	NELAP	0.12	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2,6-Dinitrotoluene	NELAP	0.125	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2-Chloronaphthalene	NELAP	0.139	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2-Chlorophenol	NELAP	0.147	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2-Methylnaphthalene	NELAP	0.138	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2-Nitroaniline	NELAP	0.105	1.16		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
2-Nitrophenol	NELAP	0.13	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
3,3'-Dichlorobenzidine	NELAP	0.231	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Bromophenyl phenyl ether	NELAP	0.106	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Chloro-3-methylphenol	NELAP	0.127	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Chloroaniline	NELAP	0.14	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Chlorophenyl phenyl ether	NELAP	0.115	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Nitroaniline	NELAP	0.105	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
4-Nitrophenol	NELAP	0.113	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Bis(2-chloroethoxy)methane	NELAP	0.135	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Bis(2-chloroethyl)ether	NELAP	0.164	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.135	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Butyl benzyl phthalate	NELAP	0.117	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-001

Client Sample ID: 1467V-1-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.141	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Dibenzofuran	NELAP	0.146	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Diethyl phthalate	NELAP	0.111	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Dimethyl phthalate	NELAP	0.105	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Di-n-butyl phthalate	NELAP	0.119	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Di-n-octyl phthalate	NELAP	0.12	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Hexachlorobenzene	NELAP	0.113	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Hexachlorobutadiene	NELAP	0.179	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Hexachlorocyclopentadiene	NELAP	0.118	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Hexachloroethane	NELAP	0.193	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Isophorone	NELAP	0.137	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
m,p-Cresol	NELAP	0.146	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Nitrobenzene	NELAP	0.145	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
N-Nitroso-di-n-propylamine	NELAP	0.127	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
N-Nitrosodiphenylamine	NELAP	0.106	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
o-Cresol	NELAP	0.137	0.579		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Pentachlorophenol	NELAP	0.764	2.31		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Phenol	NELAP	0.134	0.405		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 11:08	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		62	%REC	1	08/30/2013 11:08	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		56.7	%REC	1	08/30/2013 11:08	91473
Surr: 2-Fluorophenol		0	30.5-99		56.9	%REC	1	08/30/2013 11:08	91473
Surr: Nitrobenzene-d5		0	34.1-101		62.3	%REC	1	08/30/2013 11:08	91473
Surr: Phenol-d5		0	34.9-110		59.3	%REC	1	08/30/2013 11:08	91473
Surr: p-Terphenyl-d14		0	41.7-124		63.7	%REC	1	08/30/2013 11:08	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
2-Butanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
2-Hexanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
4-Methyl-2-pentanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Acetone	NELAP	0.0081	0.041		0.042	mg/Kg-dry	1	08/30/2013 19:59	91559
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-001

Client Sample ID: 1467V-1-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Methylene chloride	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 19:59	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Vinyl acetate	NELAP	0.0162	0.041		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:59	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120	%REC	1	08/30/2013 19:59	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		103.7	%REC	1	08/30/2013 19:59	91559
Surr: Dibromofluoromethane		0	77.7-120		102.1	%REC	1	08/30/2013 19:59	91559
Surr: Toluene-d8		0	86-116		97.4	%REC	1	08/30/2013 19:59	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-002

Client Sample ID: 1467V-1-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10	%	1	08/29/2013 12:42	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90	%	1	08/29/2013 12:42	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.17		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0258	mg/L	1	09/03/2013 14:20	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:20	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:20	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:20	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 14:20	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:20	91540
Iron	NELAP	0.007	0.02		2.41	mg/L	1	09/03/2013 14:20	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:20	91540
Manganese	NELAP	0.0016	0.005		0.0208	mg/L	1	09/03/2013 14:20	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 14:20	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:20	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:20	91540
Zinc	NELAP	0.0021	0.01		0.0122	mg/L	1	09/03/2013 14:20	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 8:49	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:26	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:29	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72	S	6720	mg/Kg-dry	1	09/03/2013 17:50	91484
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	08/30/2013 21:15	91500
Arsenic	NELAP	1.18	2.36		4.9	mg/Kg-dry	1	08/30/2013 14:20	91484
Barium	NELAP	0.24	0.47		31.9	mg/Kg-dry	1	08/30/2013 14:20	91484
Beryllium	NELAP	0.05	0.09		0.35	mg/Kg-dry	1	08/30/2013 14:20	91484
Boron	NELAP	0.94	1.89		9.7	mg/Kg-dry	1	08/30/2013 14:20	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 14:20	91484
Calcium	NELAP	2.36	4.72	S	81900	mg/Kg-dry	1	08/30/2013 14:20	91484
Chromium	NELAP	0.47	0.94		11.5	mg/Kg-dry	1	08/30/2013 14:20	91484
Cobalt	NELAP	0.47	0.94		4.09	mg/Kg-dry	1	08/30/2013 14:20	91484
Copper	NELAP	0.47	0.94		11.2	mg/Kg-dry	1	08/30/2013 14:20	91484
Iron	NELAP	0.94	1.89	S	12400	mg/Kg-dry	1	08/30/2013 14:20	91484
Lead	NELAP	1.89	3.77		4.3	mg/Kg-dry	1	08/30/2013 14:20	91484
Magnesium	NELAP	0.47	0.94	BS	34700	mg/Kg-dry	1	08/30/2013 14:20	91484
Manganese	NELAP	0.24	0.47	S	283	mg/Kg-dry	1	08/30/2013 14:20	91484
Nickel	NELAP	0.47	0.94		10.3	mg/Kg-dry	1	08/30/2013 14:20	91484
Potassium	NELAP	4.72	9.43	S	1650	mg/Kg-dry	1	08/30/2013 14:20	91484
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 14:20	91484
Sodium	NELAP	2.45	4.9		439	mg/Kg-dry	1	09/05/2013 12:52	91617
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 14:20	91484
Vanadium	NELAP	0.47	0.94		16.4	mg/Kg-dry	1	08/30/2013 14:20	91484
Zinc	NELAP	0.47	0.94		27.5	mg/Kg-dry	1	09/03/2013 17:50	91484



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-002

Client Sample ID: 1467V-1-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3050B, 6010B, METALS BY ICP

*Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).
MS QC limits for Ca, Fe, Mg, Mn, and K are not applicable due to high sample/spike ratio.
MS QC limits for Al are not applicable due to high sample/spike ratio.*

SW-846 3050B, 7010 METALS BY GFAA

Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 10:33	91495
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SW-846 7471B

Mercury	NELAP	0.003	0.01	J	0.01	mg/Kg-dry	1	08/30/2013 10:08	91477
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,2,4-Trichlorobenzene	NELAP	0.147	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
1,2-Dichlorobenzene	NELAP	0.175	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
1,3-Dichlorobenzene	NELAP	0.185	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
1,4-Dichlorobenzene	NELAP	0.175	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4,5-Trichlorophenol	NELAP	0.105	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4,6-Trichlorophenol	NELAP	0.139	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4-Dichlorophenol	NELAP	0.133	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4-Dimethylphenol	NELAP	0.14	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,4-Dinitrotoluene	NELAP	0.115	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2,6-Dinitrotoluene	NELAP	0.119	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2-Chloronaphthalene	NELAP	0.132	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2-Chlorophenol	NELAP	0.14	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2-Methylnaphthalene	NELAP	0.131	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
2-Nitrophenol	NELAP	0.123	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
3,3'-Dichlorobenzidine	NELAP	0.22	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Bromophenyl phenyl ether	NELAP	0.101	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Chloro-3-methylphenol	NELAP	0.121	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Chloroaniline	NELAP	0.133	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Chlorophenyl phenyl ether	NELAP	0.109	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Nitroaniline	NELAP	0.1	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
4-Nitrophenol	NELAP	0.108	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Bis(2-chloroethoxy)methane	NELAP	0.129	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Bis(2-chloroethyl)ether	NELAP	0.156	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Bis(2-chloroisopropyl)ether	NELAP	0.126	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Butyl benzyl phthalate	NELAP	0.111	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Carbazole		0.134	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-002

Client Sample ID: 1467V-1-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Dibenzofuran	NELAP	0.139	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Diethyl phthalate	NELAP	0.106	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Dimethyl phthalate	NELAP	0.1	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Di-n-butyl phthalate	NELAP	0.114	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Di-n-octyl phthalate	NELAP	0.115	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Hexachlorobenzene	NELAP	0.108	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Hexachlorobutadiene	NELAP	0.171	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Hexachlorocyclopentadiene	NELAP	0.112	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Hexachloroethane	NELAP	0.184	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Isophorone	NELAP	0.13	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
m,p-Cresol	NELAP	0.139	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Nitrobenzene	NELAP	0.138	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
N-Nitroso-di-n-propylamine	NELAP	0.121	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
N-Nitrosodiphenylamine	NELAP	0.101	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
o-Cresol	NELAP	0.13	0.551		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Pentachlorophenol	NELAP	0.727	2.2		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Phenol	NELAP	0.128	0.386		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 11:41	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		74.3	%REC	1	08/30/2013 11:41	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		62	%REC	1	08/30/2013 11:41	91473
Surr: 2-Fluorophenol		0	30.5-99		63.7	%REC	1	08/30/2013 11:41	91473
Surr: Nitrobenzene-d5		0	34.1-101		70.2	%REC	1	08/30/2013 11:41	91473
Surr: Phenol-d5		0	34.9-110		64.1	%REC	1	08/30/2013 11:41	91473
Surr: p-Terphenyl-d14		0	41.7-124		71.7	%REC	1	08/30/2013 11:41	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
1,3-Dichloropropane, Total		0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
2-Butanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
2-Hexanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
4-Methyl-2-pentanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Acetone	NELAP	0.007	0.035	J	0.016	mg/Kg-dry	1	08/30/2013 20:25	91559
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	08/30/2013 20:25	91559
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-002

Client Sample ID: 1467V-1-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 20:25	91559
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 20:25	91559
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 20:25	91559
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Toluene	NELAP	0.0007	0.004		0.004	mg/Kg-dry	1	08/30/2013 20:25	91559
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Vinyl acetate	NELAP	0.0141	0.035		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 20:25	91559
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	08/30/2013 20:25	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		117.1	%REC	1	08/30/2013 20:25	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		102.4	%REC	1	08/30/2013 20:25	91559
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	08/30/2013 20:25	91559
Surr: Toluene-d8		0	86-116		98.6	%REC	1	08/30/2013 20:25	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-003

Client Sample ID: 1467V-1-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 15:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13.8	%	1	08/29/2013 12:42	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86.2	%	1	08/29/2013 12:42	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.81		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0247	mg/L	1	09/03/2013 14:23	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:23	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:23	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:23	91540
Chromium	NELAP	0.004	0.01	J	0.0047	mg/L	1	09/03/2013 14:23	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:23	91540
Iron	NELAP	0.007	0.02		2.75	mg/L	1	09/03/2013 14:23	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:23	91540
Manganese	NELAP	0.0016	0.005		0.0119	mg/L	1	09/03/2013 14:23	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 14:23	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:23	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:23	91540
Zinc	NELAP	0.0021	0.01		0.0104	mg/L	1	09/03/2013 14:23	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 8:53	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:30	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:36	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5	S	7820	mg/Kg-dry	1	09/03/2013 18:01	91484
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	08/30/2013 21:18	91500
Arsenic	NELAP	1.25	2.5		3.24	mg/Kg-dry	1	08/30/2013 14:38	91484
Barium	NELAP	0.25	0.5		51.7	mg/Kg-dry	1	08/30/2013 14:38	91484
Beryllium	NELAP	0.05	0.1		0.37	mg/Kg-dry	1	08/30/2013 14:38	91484
Boron	NELAP	1	2		5.64	mg/Kg-dry	1	08/30/2013 14:38	91484
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 14:38	91484
Calcium	NELAP	2.5	5	S	13900	mg/Kg-dry	1	08/30/2013 14:38	91484
Chromium	NELAP	0.5	1	X	13.4	mg/Kg-dry	1	08/30/2013 14:38	91484
Cobalt	NELAP	0.5	1		5.23	mg/Kg-dry	1	08/30/2013 14:38	91484
Copper	NELAP	0.5	1		12.8	mg/Kg-dry	1	08/30/2013 14:38	91484
Iron	NELAP	1	2	SX	15000	mg/Kg-dry	1	08/30/2013 14:38	91484
Lead	NELAP	2	4		6.7	mg/Kg-dry	1	08/30/2013 14:38	91484
Magnesium	NELAP	0.5	1	BS	8410	mg/Kg-dry	1	08/30/2013 14:38	91484
Manganese	NELAP	1.2	2.4		164	mg/Kg-dry	5	09/05/2013 13:03	91617
Nickel	NELAP	0.5	1		15	mg/Kg-dry	1	08/30/2013 14:38	91484
Potassium	NELAP	24	48.1	S	822	mg/Kg-dry	5	09/05/2013 13:03	91617
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	08/30/2013 14:38	91484
Sodium	NELAP	12.5	25		274	mg/Kg-dry	5	09/04/2013 10:27	91484
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	08/30/2013 14:38	91484
Vanadium	NELAP	0.5	1		24.8	mg/Kg-dry	1	08/30/2013 14:38	91484
Zinc	NELAP	0.5	1		30.3	mg/Kg-dry	1	09/03/2013 18:01	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-003

Client Sample ID: 1467V-1-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 15:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>MS QC limits for K are not applicable due to high sample/spike ratio.</i>									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
<i>MS QC limits for Ca, Fe, and Mg are not applicable due to high sample/spike ratio.</i>									
<i>MS QC limits for Al are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 10:36	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.019	mg/Kg-dry	1	08/30/2013 10:10	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.153	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
1,2-Dichlorobenzene	NELAP	0.183	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
1,3-Dichlorobenzene	NELAP	0.193	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
1,4-Dichlorobenzene	NELAP	0.183	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4,5-Trichlorophenol	NELAP	0.109	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4,6-Trichlorophenol	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4-Dichlorophenol	NELAP	0.139	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4-Dimethylphenol	NELAP	0.146	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4-Dinitrophenol	NELAP	0.123	1.15		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,4-Dinitrotoluene	NELAP	0.12	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2,6-Dinitrotoluene	NELAP	0.124	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2-Chloronaphthalene	NELAP	0.138	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2-Chlorophenol	NELAP	0.146	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2-Methylnaphthalene	NELAP	0.137	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2-Nitroaniline	NELAP	0.105	1.15		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
2-Nitrophenol	NELAP	0.129	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
3,3'-Dichlorobenzidine	NELAP	0.23	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
3-Nitroaniline	NELAP	0.094	1.15		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4,6-Dinitro-2-methylphenol	NELAP	0.124	1.15		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Bromophenyl phenyl ether	NELAP	0.106	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Chloro-3-methylphenol	NELAP	0.126	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Chloroaniline	NELAP	0.139	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Chlorophenyl phenyl ether	NELAP	0.114	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Nitroaniline	NELAP	0.105	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
4-Nitrophenol	NELAP	0.113	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Bis(2-chloroethoxy)methane	NELAP	0.135	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Bis(2-chloroethyl)ether	NELAP	0.163	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Bis(2-chloroisopropyl)ether	NELAP	0.131	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.135	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Butyl benzyl phthalate	NELAP	0.116	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-003

Client Sample ID: 1467V-1-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 15:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.14	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Dibenzofuran	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Diethyl phthalate	NELAP	0.11	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Dimethyl phthalate	NELAP	0.105	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Di-n-butyl phthalate	NELAP	0.118	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Di-n-octyl phthalate	NELAP	0.12	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Hexachlorobenzene	NELAP	0.113	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Hexachlorobutadiene	NELAP	0.178	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Hexachlorocyclopentadiene	NELAP	0.117	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Hexachloroethane	NELAP	0.192	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Isophorone	NELAP	0.136	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
m,p-Cresol	NELAP	0.145	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Nitrobenzene	NELAP	0.144	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
N-Nitroso-di-n-propylamine	NELAP	0.126	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
N-Nitrosodiphenylamine	NELAP	0.106	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
o-Cresol	NELAP	0.136	0.575		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Pentachlorophenol	NELAP	0.759	2.3		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Phenol	NELAP	0.133	0.402		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 12:14	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		69.1	%REC	1	08/30/2013 12:14	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		56.9	%REC	1	08/30/2013 12:14	91473
Surr: 2-Fluorophenol		0	30.5-99		62.2	%REC	1	08/30/2013 12:14	91473
Surr: Nitrobenzene-d5		0	34.1-101		64.3	%REC	1	08/30/2013 12:14	91473
Surr: Phenol-d5		0	34.9-110		65.1	%REC	1	08/30/2013 12:14	91473
Surr: p-Terphenyl-d14		0	41.7-124		71.1	%REC	1	08/30/2013 12:14	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
2-Butanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
2-Hexanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
4-Methyl-2-pentanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Acetone	NELAP	0.0085	0.043		0.05	mg/Kg-dry	1	08/30/2013 20:52	91559
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-003

Client Sample ID: 1467V-1-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 15:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 20:52	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Vinyl acetate	NELAP	0.0171	0.043		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 20:52	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120	%REC	1	08/30/2013 20:52	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		102	%REC	1	08/30/2013 20:52	91559
Surr: Dibromofluoromethane		0	77.7-120		104.8	%REC	1	08/30/2013 20:52	91559
Surr: Toluene-d8		0	86-116		99.3	%REC	1	08/30/2013 20:52	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-004

Client Sample ID: 1467V-1-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.7	%	1	08/29/2013 12:42	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.3	%	1	08/29/2013 12:42	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.77		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0727	mg/L	1	09/06/2013 16:12	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0191	mg/L	1	09/03/2013 14:27	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:27	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:27	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:27	91540
Chromium	NELAP	0.004	0.01	J	0.0048	mg/L	1	09/03/2013 14:27	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:27	91540
Iron	NELAP	0.007	0.02	SX	5.19	mg/L	1	09/03/2013 14:27	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:27	91540
Manganese	NELAP	0.0016	0.005		0.0235	mg/L	1	09/03/2013 14:27	91540
Nickel	NELAP	0.0033	0.01	J	0.0043	mg/L	1	09/03/2013 14:27	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:27	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:27	91540
Zinc	NELAP	0.0021	0.01		0.0198	mg/L	1	09/03/2013 14:27	91540
<i>MS QC limits for Fe are not applicable due to high sample/spike ratio.</i>									
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 8:57	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:33	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:38	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		3250	mg/Kg-dry	1	09/03/2013 18:19	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 21:22	91500
Arsenic	NELAP	1.16	2.31		2.47	mg/Kg-dry	1	08/30/2013 15:49	91484
Barium	NELAP	0.23	0.46		13.2	mg/Kg-dry	1	08/30/2013 15:49	91484
Beryllium	NELAP	0.05	0.09		0.19	mg/Kg-dry	1	08/30/2013 15:49	91484
Boron	NELAP	0.93	1.85		4.51	mg/Kg-dry	1	08/30/2013 15:49	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 15:49	91484
Calcium	NELAP	2.31	4.63		66200	mg/Kg-dry	1	08/30/2013 15:49	91484
Chromium	NELAP	0.46	0.93		7.07	mg/Kg-dry	1	08/30/2013 15:49	91484
Cobalt	NELAP	0.46	0.93		3.03	mg/Kg-dry	1	08/30/2013 15:49	91484
Copper	NELAP	0.46	0.93		8.69	mg/Kg-dry	1	08/30/2013 15:49	91484
Iron	NELAP	0.93	1.85		10500	mg/Kg-dry	1	08/30/2013 15:49	91484
Lead	NELAP	1.85	3.7		4.18	mg/Kg-dry	1	08/30/2013 15:49	91484
Magnesium	NELAP	0.46	0.93	B	37600	mg/Kg-dry	1	08/30/2013 15:49	91484
Manganese	NELAP	0.23	0.46		170	mg/Kg-dry	1	08/30/2013 15:49	91484
Nickel	NELAP	0.46	0.93		9.3	mg/Kg-dry	1	08/30/2013 15:49	91484
Potassium	NELAP	4.63	9.26		603	mg/Kg-dry	1	08/30/2013 15:49	91484
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	08/30/2013 15:49	91484
Sodium	NELAP	2.31	4.63		248	mg/Kg-dry	1	08/30/2013 15:49	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-004

Client Sample ID: 1467V-1-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	08/30/2013 15:49	91484
Vanadium	NELAP	0.46	0.93		17.1	mg/Kg-dry	1	08/30/2013 15:49	91484
Zinc	NELAP	0.46	0.93		23.2	mg/Kg-dry	1	09/03/2013 18:19	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 10:40	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.006	mg/Kg-dry	1	08/30/2013 10:12	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.15	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
1,2-Dichlorobenzene	NELAP	0.179	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
1,3-Dichlorobenzene	NELAP	0.189	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
1,4-Dichlorobenzene	NELAP	0.179	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4,5-Trichlorophenol	NELAP	0.107	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4,6-Trichlorophenol	NELAP	0.142	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4-Dichlorophenol	NELAP	0.136	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4-Dimethylphenol	NELAP	0.143	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4-Dinitrophenol	NELAP	0.12	1.13		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,4-Dinitrotoluene	NELAP	0.117	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2,6-Dinitrotoluene	NELAP	0.122	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2-Chloronaphthalene	NELAP	0.135	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2-Chlorophenol	NELAP	0.143	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2-Methylnaphthalene	NELAP	0.134	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2-Nitroaniline	NELAP	0.102	1.13		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
2-Nitrophenol	NELAP	0.126	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
3,3'-Dichlorobenzidine	NELAP	0.225	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
3-Nitroaniline	NELAP	0.092	1.13		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Bromophenyl phenyl ether	NELAP	0.104	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Chloro-3-methylphenol	NELAP	0.124	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Chloroaniline	NELAP	0.136	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Chlorophenyl phenyl ether	NELAP	0.111	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Nitroaniline	NELAP	0.102	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
4-Nitrophenol	NELAP	0.11	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Bis(2-chloroethoxy)methane	NELAP	0.132	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Bis(2-chloroethyl)ether	NELAP	0.16	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Bis(2-chloroisopropyl)ether	NELAP	0.128	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.132	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Butyl benzyl phthalate	NELAP	0.114	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-004

Client Sample ID: 1467V-1-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.137	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Dibenzofuran	NELAP	0.142	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Diethyl phthalate	NELAP	0.108	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Dimethyl phthalate	NELAP	0.102	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Di-n-butyl phthalate	NELAP	0.116	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Di-n-octyl phthalate	NELAP	0.117	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Hexachlorobenzene	NELAP	0.11	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Hexachlorobutadiene	NELAP	0.174	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Hexachlorocyclopentadiene	NELAP	0.115	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Hexachloroethane	NELAP	0.188	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Isophorone	NELAP	0.133	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
m,p-Cresol	NELAP	0.142	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Nitrobenzene	NELAP	0.141	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
N-Nitroso-di-n-propylamine	NELAP	0.124	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
N-Nitrosodiphenylamine	NELAP	0.104	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
o-Cresol	NELAP	0.133	0.563		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Pentachlorophenol	NELAP	0.743	2.25		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Phenol	NELAP	0.131	0.394		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 12:47	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.8	%REC	1	08/30/2013 12:47	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		63.9	%REC	1	08/30/2013 12:47	91473
Surr: 2-Fluorophenol		0	30.5-99		63.2	%REC	1	08/30/2013 12:47	91473
Surr: Nitrobenzene-d5		0	34.1-101		67.3	%REC	1	08/30/2013 12:47	91473
Surr: Phenol-d5		0	34.9-110		64.4	%REC	1	08/30/2013 12:47	91473
Surr: p-Terphenyl-d14		0	41.7-124		69.5	%REC	1	08/30/2013 12:47	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,1,2-Trichloroethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,1-Dichloroethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,1-Dichloroethene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,2-Dichloroethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,2-Dichloropropane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
1,3-Dichloropropene, Total		0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
2-Butanone	NELAP	0.0045	0.022		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
2-Hexanone	NELAP	0.0045	0.022		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
4-Methyl-2-pentanone	NELAP	0.0045	0.022		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Acetone	NELAP	0.0045	0.022		0.041	mg/Kg-dry	1	08/30/2013 21:19	91559
Benzene	NELAP	0.0002	0		0.001	mg/Kg-dry	1	08/30/2013 21:19	91559
Bromodichloromethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-004

Client Sample ID: 1467V-1-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Bromomethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Carbon disulfide	NELAP	0.0013	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Carbon tetrachloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Chlorobenzene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Chloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Chloroform	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Chloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
cis-1,2-Dichloroethene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
cis-1,3-Dichloropropene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Dibromochloromethane	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Ethylbenzene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
m,p-Xylenes	NELAP	0.0004	0.002	J	0.001	mg/Kg-dry	1	08/30/2013 21:19	91559
Methyl tert-butyl ether	NELAP	0.0002	0.001		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Methylene chloride	NELAP	0.0004	0.002		0.004	mg/Kg-dry	1	08/30/2013 21:19	91559
o-Xylene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Styrene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Tetrachloroethene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Toluene	NELAP	0.0004	0.002	J	0.001	mg/Kg-dry	1	08/30/2013 21:19	91559
trans-1,2-Dichloroethene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
trans-1,3-Dichloropropene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Trichloroethene	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Vinyl acetate	NELAP	0.0089	0.022		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Vinyl chloride	NELAP	0.0002	0.001		ND	mg/Kg-dry	1	08/30/2013 21:19	91559
Xylenes, Total	NELAP	0.0004	0.002	J	0.001	mg/Kg-dry	1	08/30/2013 21:19	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		91.5	%REC	1	08/30/2013 21:19	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		98.8	%REC	1	08/30/2013 21:19	91559
Surr: Dibromofluoromethane		0	77.7-120		95.3	%REC	1	08/30/2013 21:19	91559
Surr: Toluene-d8		0	86-116		103.1	%REC	1	08/30/2013 21:19	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-005

Client Sample ID: 1467V-1-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 15:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18	%	1	08/29/2013 12:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82	%	1	08/29/2013 12:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.75		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.109	mg/L	1	09/06/2013 16:31	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0384	mg/L	1	09/03/2013 14:45	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:45	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:45	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:45	91540
Chromium	NELAP	0.004	0.01	J	0.0061	mg/L	1	09/03/2013 14:45	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:45	91540
Iron	NELAP	0.007	0.02	X	5.51	mg/L	1	09/03/2013 14:45	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:45	91540
Manganese	NELAP	0.0016	0.005		0.0231	mg/L	1	09/03/2013 14:45	91540
Nickel	NELAP	0.0033	0.01	J	0.0045	mg/L	1	09/03/2013 14:45	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:45	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:45	91540
Zinc	NELAP	0.0021	0.01		0.0158	mg/L	1	09/03/2013 14:45	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:00	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:37	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:40	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		14800	mg/Kg-dry	1	09/03/2013 18:23	91484
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	08/30/2013 21:26	91500
Arsenic	NELAP	1.23	2.45		3.07	mg/Kg-dry	1	08/30/2013 15:55	91484
Barium	NELAP	0.25	0.49		105	mg/Kg-dry	1	08/30/2013 15:55	91484
Beryllium	NELAP	0.05	0.1		0.61	mg/Kg-dry	1	08/30/2013 15:55	91484
Boron	NELAP	0.98	1.96		8.05	mg/Kg-dry	1	08/30/2013 15:55	91484
Cadmium	NELAP	0.1	0.2	J	0.1	mg/Kg-dry	1	08/30/2013 15:55	91484
Calcium	NELAP	2.45	4.9		29400	mg/Kg-dry	1	08/30/2013 15:55	91484
Chromium	NELAP	0.49	0.98	X	21	mg/Kg-dry	1	08/30/2013 15:55	91484
Cobalt	NELAP	0.49	0.98		5.05	mg/Kg-dry	1	08/30/2013 15:55	91484
Copper	NELAP	0.49	0.98		16.4	mg/Kg-dry	1	08/30/2013 15:55	91484
Iron	NELAP	0.98	1.96	X	16400	mg/Kg-dry	1	08/30/2013 15:55	91484
Lead	NELAP	1.96	3.92		9.87	mg/Kg-dry	1	08/30/2013 15:55	91484
Magnesium	NELAP	0.49	0.98	B	17800	mg/Kg-dry	1	08/30/2013 15:55	91484
Manganese	NELAP	0.25	0.49		144	mg/Kg-dry	1	08/30/2013 15:55	91484
Nickel	NELAP	0.49	0.98		16.7	mg/Kg-dry	1	08/30/2013 15:55	91484
Potassium	NELAP	4.9	9.8		1810	mg/Kg-dry	1	08/30/2013 15:55	91484
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 15:55	91484
Sodium	NELAP	2.45	4.9		336	mg/Kg-dry	1	08/30/2013 15:55	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-005

Client Sample ID: 1467V-1-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 15:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 15:55	91484
Vanadium	NELAP	0.49	0.98		38.7	mg/Kg-dry	1	08/30/2013 15:55	91484
Zinc	NELAP	0.49	0.98		49.6	mg/Kg-dry	1	09/03/2013 18:23	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 10:43	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.028	mg/Kg-dry	1	08/30/2013 10:15	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.162	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
1,2-Dichlorobenzene	NELAP	0.193	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
1,3-Dichlorobenzene	NELAP	0.204	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
1,4-Dichlorobenzene	NELAP	0.193	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4,5-Trichlorophenol	NELAP	0.115	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4,6-Trichlorophenol	NELAP	0.153	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4-Dichlorophenol	NELAP	0.147	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4-Dimethylphenol	NELAP	0.154	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4-Dinitrophenol	NELAP	0.13	1.22		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,4-Dinitrotoluene	NELAP	0.126	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2,6-Dinitrotoluene	NELAP	0.131	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2-Chloronaphthalene	NELAP	0.146	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2-Chlorophenol	NELAP	0.154	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2-Methylnaphthalene	NELAP	0.145	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
2-Nitrophenol	NELAP	0.136	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
3,3'-Dichlorobenzidine	NELAP	0.243	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.22		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Bromophenyl phenyl ether	NELAP	0.112	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Chloro-3-methylphenol	NELAP	0.134	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Chloroaniline	NELAP	0.147	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Chlorophenyl phenyl ether	NELAP	0.12	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Nitroaniline	NELAP	0.111	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
4-Nitrophenol	NELAP	0.119	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Bis(2-chloroethoxy)methane	NELAP	0.142	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Bis(2-chloroethyl)ether	NELAP	0.173	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.142	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Butyl benzyl phthalate	NELAP	0.123	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-005

Client Sample ID: 1467V-1-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 15:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.148	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Dibenzofuran	NELAP	0.153	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Diethyl phthalate	NELAP	0.117	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Dimethyl phthalate	NELAP	0.111	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Di-n-butyl phthalate	NELAP	0.125	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Di-n-octyl phthalate	NELAP	0.126	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Hexachlorobenzene	NELAP	0.119	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Hexachlorobutadiene	NELAP	0.188	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Hexachlorocyclopentadiene	NELAP	0.124	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Hexachloroethane	NELAP	0.203	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Isophorone	NELAP	0.143	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
m,p-Cresol	NELAP	0.153	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Nitrobenzene	NELAP	0.152	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
N-Nitroso-di-n-propylamine	NELAP	0.134	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
N-Nitrosodiphenylamine	NELAP	0.112	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
o-Cresol	NELAP	0.143	0.608		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Pentachlorophenol	NELAP	0.802	2.43		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Phenol	NELAP	0.141	0.425		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 13:21	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		69.4	%REC	1	08/30/2013 13:21	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		54.9	%REC	1	08/30/2013 13:21	91473
Surr: 2-Fluorophenol		0	30.5-99		64.6	%REC	1	08/30/2013 13:21	91473
Surr: Nitrobenzene-d5		0	34.1-101		65.3	%REC	1	08/30/2013 13:21	91473
Surr: Phenol-d5		0	34.9-110		66.6	%REC	1	08/30/2013 13:21	91473
Surr: p-Terphenyl-d14		0	41.7-124		74.6	%REC	1	08/30/2013 13:21	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
2-Butanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
2-Hexanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
4-Methyl-2-pentanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Acetone	NELAP	0.0087	0.043	J	0.016	mg/Kg-dry	1	08/30/2013 21:45	91559
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-005

Client Sample ID: 1467V-1-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 15:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 21:45	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Vinyl acetate	NELAP	0.0173	0.043		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 21:45	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		117.7	%REC	1	08/30/2013 21:45	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		101.9	%REC	1	08/30/2013 21:45	91559
Surr: Dibromofluoromethane		0	77.7-120		103.6	%REC	1	08/30/2013 21:45	91559
Surr: Toluene-d8		0	86-116		98.9	%REC	1	08/30/2013 21:45	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-006

Client Sample ID: 1467V-1-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		7.8	%	1	08/29/2013 12:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		92.2	%	1	08/29/2013 12:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.67		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.06	mg/L	1	09/03/2013 14:49	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:49	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:49	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:49	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 14:49	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:49	91540
Iron	NELAP	0.007	0.02		0.347	mg/L	1	09/03/2013 14:49	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:49	91540
Manganese	NELAP	0.0016	0.005		0.0746	mg/L	1	09/03/2013 14:49	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 14:49	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:49	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:49	91540
Zinc	NELAP	0.0021	0.01	J	0.0059	mg/L	1	09/03/2013 14:49	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:04	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:40	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:42	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		5280	mg/Kg-dry	1	09/03/2013 18:26	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 21:44	91500
Arsenic	NELAP	1.16	2.31	J	1.9	mg/Kg-dry	1	08/30/2013 16:01	91484
Barium	NELAP	0.23	0.46		29.9	mg/Kg-dry	1	08/30/2013 16:01	91484
Beryllium	NELAP	0.05	0.09		0.28	mg/Kg-dry	1	08/30/2013 16:01	91484
Boron	NELAP	0.93	1.85		7.74	mg/Kg-dry	1	08/30/2013 16:01	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 16:01	91484
Calcium	NELAP	2.31	4.63		92000	mg/Kg-dry	1	08/30/2013 16:01	91484
Chromium	NELAP	0.46	0.93		9.2	mg/Kg-dry	1	08/30/2013 16:01	91484
Cobalt	NELAP	0.46	0.93		3.51	mg/Kg-dry	1	08/30/2013 16:01	91484
Copper	NELAP	0.46	0.93		9.47	mg/Kg-dry	1	08/30/2013 16:01	91484
Iron	NELAP	0.93	1.85		10400	mg/Kg-dry	1	08/30/2013 16:01	91484
Lead	NELAP	1.85	3.7		4.6	mg/Kg-dry	1	08/30/2013 16:01	91484
Magnesium	NELAP	0.46	0.93	B	44100	mg/Kg-dry	1	08/30/2013 16:01	91484
Manganese	NELAP	0.23	0.46		342	mg/Kg-dry	1	08/30/2013 16:01	91484
Nickel	NELAP	0.46	0.93		8.71	mg/Kg-dry	1	08/30/2013 16:01	91484
Potassium	NELAP	4.63	9.26		1290	mg/Kg-dry	1	08/30/2013 16:01	91484
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	08/30/2013 16:01	91484
Sodium	NELAP	2.31	4.63		402	mg/Kg-dry	1	08/30/2013 16:01	91484
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	08/30/2013 16:01	91484
Vanadium	NELAP	0.46	0.93		14.7	mg/Kg-dry	1	08/30/2013 16:01	91484
Zinc	NELAP	0.46	0.93		20.7	mg/Kg-dry	1	09/03/2013 18:26	91484



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-006

Client Sample ID: 1467V-1-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	08/30/2013 10:46	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.005	mg/Kg-dry	1	08/30/2013 10:21	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.144	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
1,2-Dichlorobenzene	NELAP	0.172	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
1,3-Dichlorobenzene	NELAP	0.182	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
1,4-Dichlorobenzene	NELAP	0.172	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4,5-Trichlorophenol	NELAP	0.103	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4,6-Trichlorophenol	NELAP	0.137	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4-Dichlorophenol	NELAP	0.131	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4-Dimethylphenol	NELAP	0.138	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4-Dinitrophenol	NELAP	0.116	1.08		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,4-Dinitrotoluene	NELAP	0.113	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2,6-Dinitrotoluene	NELAP	0.117	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2-Chloronaphthalene	NELAP	0.13	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2-Chlorophenol	NELAP	0.138	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2-Methylnaphthalene	NELAP	0.129	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2-Nitroaniline	NELAP	0.099	1.08		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
2-Nitrophenol	NELAP	0.121	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
3,3'-Dichlorobenzidine	NELAP	0.217	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
3-Nitroaniline	NELAP	0.089	1.08		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4,6-Dinitro-2-methylphenol	NELAP	0.117	1.08		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Bromophenyl phenyl ether	NELAP	0.1	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Chloro-3-methylphenol	NELAP	0.119	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Chloroaniline	NELAP	0.131	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Chlorophenyl phenyl ether	NELAP	0.107	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Nitroaniline	NELAP	0.099	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
4-Nitrophenol	NELAP	0.106	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Bis(2-chloroethoxy)methane	NELAP	0.127	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Bis(2-chloroethyl)ether	NELAP	0.154	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Bis(2-chloroisopropyl)ether	NELAP	0.124	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.127	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Butyl benzyl phthalate	NELAP	0.11	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Carbazole		0.132	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-006

Client Sample ID: 1467V-1-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.137	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Diethyl phthalate	NELAP	0.104	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Dimethyl phthalate	NELAP	0.099	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Di-n-butyl phthalate	NELAP	0.112	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Di-n-octyl phthalate	NELAP	0.113	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Hexachlorobenzene	NELAP	0.106	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Hexachlorobutadiene	NELAP	0.168	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Hexachlorocyclopentadiene	NELAP	0.111	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Hexachloroethane	NELAP	0.181	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Isophorone	NELAP	0.128	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
m,p-Cresol	NELAP	0.137	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Nitrobenzene	NELAP	0.136	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
N-Nitroso-di-n-propylamine	NELAP	0.119	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
N-Nitrosodiphenylamine	NELAP	0.1	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
o-Cresol	NELAP	0.128	0.542		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Pentachlorophenol	NELAP	0.716	2.17		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Phenol	NELAP	0.126	0.38		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 13:54	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		66.7	%REC	1	08/30/2013 13:54	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		55	%REC	1	08/30/2013 13:54	91473
Surr: 2-Fluorophenol		0	30.5-99		62.2	%REC	1	08/30/2013 13:54	91473
Surr: Nitrobenzene-d5		0	34.1-101		66.4	%REC	1	08/30/2013 13:54	91473
Surr: Phenol-d5		0	34.9-110		65.9	%REC	1	08/30/2013 13:54	91473
Surr: p-Terphenyl-d14		0	41.7-124		66.7	%REC	1	08/30/2013 13:54	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
2-Butanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
2-Hexanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
4-Methyl-2-pentanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Acetone	NELAP	0.0073	0.037	J	0.026	mg/Kg-dry	1	08/30/2013 22:11	91559
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	08/30/2013 22:11	91559
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-006

Client Sample ID: 1467V-1-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
m,p-Xylenes	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 22:11	91559
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Vinyl acetate	NELAP	0.0146	0.037		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Xylenes, Total	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	08/30/2013 22:11	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		118.9	%REC	1	08/30/2013 22:11	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		103.5	%REC	1	08/30/2013 22:11	91559
Surr: Dibromofluoromethane		0	77.7-120		103.4	%REC	1	08/30/2013 22:11	91559
Surr: Toluene-d8		0	86-116		97.2	%REC	1	08/30/2013 22:11	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-007

Client Sample ID: 1467V-1-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 14:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		23.1	%	1	08/29/2013 12:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		76.9	%	1	08/29/2013 12:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.68		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0251	mg/L	1	09/03/2013 14:53	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:53	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:53	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:53	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 14:53	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:53	91540
Iron	NELAP	0.007	0.02		4.4	mg/L	1	09/03/2013 14:53	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:53	91540
Manganese	NELAP	0.0016	0.005		0.0143	mg/L	1	09/03/2013 14:53	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 14:53	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:53	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:53	91540
Zinc	NELAP	0.0021	0.01		0.0103	mg/L	1	09/03/2013 14:53	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:30	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 11:57	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:45	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		13900	mg/Kg-dry	1	09/03/2013 18:30	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 21:48	91500
Arsenic	NELAP	1.18	2.36		6.02	mg/Kg-dry	1	08/30/2013 16:07	91484
Barium	NELAP	0.24	0.47		84.5	mg/Kg-dry	1	08/30/2013 16:07	91484
Beryllium	NELAP	0.05	0.09		0.61	mg/Kg-dry	1	08/30/2013 16:07	91484
Boron	NELAP	0.94	1.89		8.63	mg/Kg-dry	1	08/30/2013 16:07	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 16:07	91484
Calcium	NELAP	2.36	4.72		15100	mg/Kg-dry	1	08/30/2013 16:07	91484
Chromium	NELAP	0.47	0.94	X	20.1	mg/Kg-dry	1	08/30/2013 16:07	91484
Cobalt	NELAP	0.47	0.94		7.74	mg/Kg-dry	1	08/30/2013 16:07	91484
Copper	NELAP	0.47	0.94		19.6	mg/Kg-dry	1	08/30/2013 16:07	91484
Iron	NELAP	0.94	1.89	X	35900	mg/Kg-dry	1	08/30/2013 16:07	91484
Lead	NELAP	1.89	3.77		11.7	mg/Kg-dry	1	08/30/2013 16:07	91484
Magnesium	NELAP	0.47	0.94	B	9690	mg/Kg-dry	1	08/30/2013 16:07	91484
Manganese	NELAP	0.24	0.47		290	mg/Kg-dry	1	08/30/2013 16:07	91484
Nickel	NELAP	0.47	0.94		16.8	mg/Kg-dry	1	08/30/2013 16:07	91484
Potassium	NELAP	4.72	9.43		1830	mg/Kg-dry	1	08/30/2013 16:07	91484
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 16:07	91484
Sodium	NELAP	2.36	4.72		172	mg/Kg-dry	1	08/30/2013 16:07	91484
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 16:07	91484
Vanadium	NELAP	0.47	0.94		36.5	mg/Kg-dry	1	08/30/2013 16:07	91484
Zinc	NELAP	0.47	0.94		52.8	mg/Kg-dry	1	09/03/2013 18:30	91484



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-007

Client Sample ID: 1467V-1-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 14:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566	S	< 0.566	mg/Kg-dry	1	09/03/2013 9:12	91534
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.04	mg/Kg-dry	1	08/30/2013 10:24	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.173	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
1,2-Dichlorobenzene	NELAP	0.206	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
1,3-Dichlorobenzene	NELAP	0.218	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
1,4-Dichlorobenzene	NELAP	0.206	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4,5-Trichlorophenol	NELAP	0.123	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4,6-Trichlorophenol	NELAP	0.164	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4-Dichlorophenol	NELAP	0.157	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4-Dimethylphenol	NELAP	0.165	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4-Dinitrophenol	NELAP	0.139	1.3		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,4-Dinitrotoluene	NELAP	0.135	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2,6-Dinitrotoluene	NELAP	0.14	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2-Chloronaphthalene	NELAP	0.156	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2-Chlorophenol	NELAP	0.165	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2-Methylnaphthalene	NELAP	0.155	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2-Nitroaniline	NELAP	0.118	1.3		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
2-Nitrophenol	NELAP	0.145	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
3,3'-Dichlorobenzidine	NELAP	0.26	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
3-Nitroaniline	NELAP	0.106	1.3		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4,6-Dinitro-2-methylphenol	NELAP	0.14	1.3		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Bromophenyl phenyl ether	NELAP	0.119	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Chloro-3-methylphenol	NELAP	0.143	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Chloroaniline	NELAP	0.157	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Chlorophenyl phenyl ether	NELAP	0.129	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Nitroaniline	NELAP	0.118	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
4-Nitrophenol	NELAP	0.127	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Acenaphthene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Acenaphthylene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Anthracene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Benzo(a)anthracene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Benzo(a)pyrene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Benzo(b)fluoranthene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Benzo(g,h,i)perylene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Benzo(k)fluoranthene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Bis(2-chloroethoxy)methane	NELAP	0.152	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Bis(2-chloroethyl)ether	NELAP	0.184	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Bis(2-chloroisopropyl)ether	NELAP	0.148	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.152	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Butyl benzyl phthalate	NELAP	0.131	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Carbazole		0.158	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Chrysene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-007

Client Sample ID: 1467V-1-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 14:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzo(a,h)anthracene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Dibenzofuran	NELAP	0.164	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Diethyl phthalate	NELAP	0.125	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Dimethyl phthalate	NELAP	0.118	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Di-n-butyl phthalate	NELAP	0.134	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Di-n-octyl phthalate	NELAP	0.135	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Fluoranthene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Fluorene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Hexachlorobenzene	NELAP	0.127	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Hexachlorobutadiene	NELAP	0.201	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Hexachlorocyclopentadiene	NELAP	0.132	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Hexachloroethane	NELAP	0.217	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Isophorone	NELAP	0.153	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
m,p-Cresol	NELAP	0.164	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Naphthalene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Nitrobenzene	NELAP	0.162	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
N-Nitroso-di-n-propylamine	NELAP	0.143	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
N-Nitrosodiphenylamine	NELAP	0.119	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
o-Cresol	NELAP	0.153	0.649		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Pentachlorophenol	NELAP	0.857	2.6		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Phenanthrene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Phenol	NELAP	0.151	0.454		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Pyrene	NELAP	0.022	0.044		ND	mg/Kg-dry	1	08/30/2013 14:27	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		69.7	%REC	1	08/30/2013 14:27	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		43.4	%REC	1	08/30/2013 14:27	91473
Surr: 2-Fluorophenol		0	30.5-99		58.8	%REC	1	08/30/2013 14:27	91473
Surr: Nitrobenzene-d5		0	34.1-101		63.4	%REC	1	08/30/2013 14:27	91473
Surr: Phenol-d5		0	34.9-110		60.1	%REC	1	08/30/2013 14:27	91473
Surr: p-Terphenyl-d14		0	41.7-124		68.5	%REC	1	08/30/2013 14:27	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
2-Butanone	NELAP	0.0095	0.047		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
2-Hexanone	NELAP	0.0095	0.047		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
4-Methyl-2-pentanone	NELAP	0.0095	0.047		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Acetone	NELAP	0.0095	0.047		0.079	mg/Kg-dry	1	08/30/2013 22:37	91559
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Bromomethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 22:37	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-007

Client Sample ID: 1467V-1-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 14:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Chloroethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Chloromethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Methylene chloride	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	08/30/2013 22:37	91559
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Vinyl acetate	NELAP	0.0189	0.047		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 22:37	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		119.4	%REC	1	08/30/2013 22:37	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		96.5	%REC	1	08/30/2013 22:37	91559
Surr: Dibromofluoromethane		0	77.7-120		104.2	%REC	1	08/30/2013 22:37	91559
Surr: Toluene-d8		0	86-116		100.3	%REC	1	08/30/2013 22:37	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-008

Client Sample ID: 1467V-1-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19.6	%	1	08/29/2013 12:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.4	%	1	08/29/2013 12:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.89		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0153	mg/L	1	09/03/2013 14:57	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 14:57	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 14:57	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 14:57	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 14:57	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 14:57	91540
Iron	NELAP	0.007	0.02		1.11	mg/L	1	09/03/2013 14:57	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 14:57	91540
Manganese	NELAP	0.0016	0.005		0.0051	mg/L	1	09/03/2013 14:57	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 14:57	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 14:57	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 14:57	91540
Zinc	NELAP	0.0021	0.01	J	0.0065	mg/L	1	09/03/2013 14:57	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:34	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:01	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:47	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		9390	mg/Kg-dry	1	09/03/2013 18:34	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 21:51	91500
Arsenic	NELAP	1.18	2.36	J	1.38	mg/Kg-dry	1	08/30/2013 16:14	91484
Barium	NELAP	0.24	0.47		71.5	mg/Kg-dry	1	08/30/2013 16:14	91484
Beryllium	NELAP	0.05	0.09		0.48	mg/Kg-dry	1	08/30/2013 16:14	91484
Boron	NELAP	0.94	1.89		7.51	mg/Kg-dry	1	08/30/2013 16:14	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 16:14	91484
Calcium	NELAP	2.36	4.72		50000	mg/Kg-dry	1	08/30/2013 16:14	91484
Chromium	NELAP	0.47	0.94	X	14.5	mg/Kg-dry	1	08/30/2013 16:14	91484
Cobalt	NELAP	0.47	0.94		3.75	mg/Kg-dry	1	08/30/2013 16:14	91484
Copper	NELAP	0.47	0.94		13.8	mg/Kg-dry	1	08/30/2013 16:14	91484
Iron	NELAP	0.94	1.89	X	31000	mg/Kg-dry	1	08/30/2013 16:14	91484
Lead	NELAP	1.89	3.77		8.48	mg/Kg-dry	1	08/30/2013 16:14	91484
Magnesium	NELAP	0.47	0.94	B	26200	mg/Kg-dry	1	08/30/2013 16:14	91484
Manganese	NELAP	0.24	0.47		480	mg/Kg-dry	1	08/30/2013 16:14	91484
Nickel	NELAP	0.47	0.94		10.1	mg/Kg-dry	1	08/30/2013 16:14	91484
Potassium	NELAP	4.72	9.43		1570	mg/Kg-dry	1	08/30/2013 16:14	91484
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 16:14	91484
Sodium	NELAP	2.36	4.72		254	mg/Kg-dry	1	08/30/2013 16:14	91484
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 16:14	91484
Vanadium	NELAP	0.47	0.94		28.6	mg/Kg-dry	1	08/30/2013 16:14	91484
Zinc	NELAP	0.47	0.94		40.8	mg/Kg-dry	1	09/03/2013 18:34	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-008

Client Sample ID: 1467V-1-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 11:20	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.015	mg/Kg-dry	1	08/30/2013 10:26	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.165	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
1,2-Dichlorobenzene	NELAP	0.198	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
1,3-Dichlorobenzene	NELAP	0.209	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
1,4-Dichlorobenzene	NELAP	0.198	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4,5-Trichlorophenol	NELAP	0.118	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4,6-Trichlorophenol	NELAP	0.157	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4-Dichlorophenol	NELAP	0.151	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4-Dimethylphenol	NELAP	0.158	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4-Dinitrophenol	NELAP	0.133	1.24		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,4-Dinitrotoluene	NELAP	0.129	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2,6-Dinitrotoluene	NELAP	0.134	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2-Chloronaphthalene	NELAP	0.149	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2-Chlorophenol	NELAP	0.158	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2-Methylnaphthalene	NELAP	0.148	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2-Nitroaniline	NELAP	0.113	1.24		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
2-Nitrophenol	NELAP	0.139	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
3,3'-Dichlorobenzidine	NELAP	0.249	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
3-Nitroaniline	NELAP	0.102	1.24		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4,6-Dinitro-2-methylphenol	NELAP	0.134	1.24		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Bromophenyl phenyl ether	NELAP	0.114	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Chloro-3-methylphenol	NELAP	0.137	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Chloroaniline	NELAP	0.151	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Chlorophenyl phenyl ether	NELAP	0.123	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Nitroaniline	NELAP	0.113	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
4-Nitrophenol	NELAP	0.122	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Bis(2-chloroethoxy)methane	NELAP	0.146	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Bis(2-chloroethyl)ether	NELAP	0.177	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.146	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Butyl benzyl phthalate	NELAP	0.126	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Carbazole		0.152	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-008

Client Sample ID: 1467V-1-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzofuran	NELAP	0.157	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Diethyl phthalate	NELAP	0.119	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Dimethyl phthalate	NELAP	0.113	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Di-n-butyl phthalate	NELAP	0.128	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Di-n-octyl phthalate	NELAP	0.129	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Hexachlorobenzene	NELAP	0.122	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Hexachlorobutadiene	NELAP	0.193	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Hexachlorocyclopentadiene	NELAP	0.127	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Hexachloroethane	NELAP	0.208	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Isophorone	NELAP	0.147	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
m,p-Cresol	NELAP	0.157	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Nitrobenzene	NELAP	0.155	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
N-Nitroso-di-n-propylamine	NELAP	0.137	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
N-Nitrosodiphenylamine	NELAP	0.114	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
o-Cresol	NELAP	0.147	0.622		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Pentachlorophenol	NELAP	0.821	2.49		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Phenol	NELAP	0.144	0.435		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 5:10	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		67.6	%REC	1	08/31/2013 5:10	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		58.8	%REC	1	08/31/2013 5:10	91473
Surr: 2-Fluorophenol		0	30.5-99		62.9	%REC	1	08/31/2013 5:10	91473
Surr: Nitrobenzene-d5		0	34.1-101		71	%REC	1	08/31/2013 5:10	91473
Surr: Phenol-d5		0	34.9-110		65.3	%REC	1	08/31/2013 5:10	91473
Surr: p-Terphenyl-d14		0	41.7-124		69.9	%REC	1	08/31/2013 5:10	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,1,2-Trichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,1-Dichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,1-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,2-Dichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,2-Dichloropropane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
1,3-Dichloropropene, Total		0.0011	0.004		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
2-Butanone	NELAP	0.0106	0.053		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
2-Hexanone	NELAP	0.0106	0.053		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
4-Methyl-2-pentanone	NELAP	0.0106	0.053		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Acetone	NELAP	0.0106	0.053	J	0.033	mg/Kg-dry	1	08/30/2013 23:03	91559
Benzene	NELAP	0.0005	0.001		0.001	mg/Kg-dry	1	08/30/2013 23:03	91559
Bromodichloromethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Bromoform	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Bromomethane	NELAP	0.0021	0.011		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Carbon disulfide	NELAP	0.0032	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-008

Client Sample ID: 1467V-1-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Chlorobenzene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Chloroethane	NELAP	0.0021	0.011		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Chloroform	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Chloromethane	NELAP	0.0021	0.011		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
cis-1,2-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
cis-1,3-Dichloropropene	NELAP	0.0011	0.004		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Dibromochloromethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Ethylbenzene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
m,p-Xylenes	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Methylene chloride	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
o-Xylene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Styrene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Tetrachloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Toluene	NELAP	0.0011	0.005	J	0.002	mg/Kg-dry	1	08/30/2013 23:03	91559
trans-1,2-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
trans-1,3-Dichloropropene	NELAP	0.0011	0.004		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Trichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Vinyl acetate	NELAP	0.0212	0.053		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Xylenes, Total	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	08/30/2013 23:03	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120	%REC	1	08/30/2013 23:03	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		103.3	%REC	1	08/30/2013 23:03	91559
Surr: Dibromofluoromethane		0	77.7-120		103.3	%REC	1	08/30/2013 23:03	91559
Surr: Toluene-d8		0	86-116		99	%REC	1	08/30/2013 23:03	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-009

Client Sample ID: 1467V-1-B06-1

Matrix: SOLID

Collection Date: 08/27/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		22.2	%	1	08/29/2013 12:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		77.8	%	1	08/29/2013 12:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.63		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.713	mg/L	1	09/06/2013 16:34	91654
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 16:34	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.137	mg/L	1	09/03/2013 15:00	91540
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/03/2013 15:00	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:00	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:00	91540
Chromium	NELAP	0.004	0.01		0.0153	mg/L	1	09/03/2013 15:00	91540
Cobalt	NELAP	0.0022	0.01	J	0.0035	mg/L	1	09/03/2013 15:00	91540
Iron	NELAP	0.007	0.02	X	12.6	mg/L	1	09/03/2013 15:00	91540
Lead	NELAP	0.006	0.007	X	0.0092	mg/L	1	09/03/2013 15:00	91540
Manganese	NELAP	0.0016	0.005		0.103	mg/L	1	09/03/2013 15:00	91540
Nickel	NELAP	0.0033	0.01		0.0175	mg/L	1	09/03/2013 15:00	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:00	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:00	91540
Zinc	NELAP	0.0021	0.01		0.0384	mg/L	1	09/03/2013 15:00	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005	J	0.003	mg/L	1	09/03/2013 9:37	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:04	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:54	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		18200	mg/Kg-dry	1	09/03/2013 18:37	91484
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	08/30/2013 22:02	91500
Arsenic	NELAP	1.2	2.4		7.74	mg/Kg-dry	1	08/30/2013 16:20	91484
Barium	NELAP	0.24	0.48		223	mg/Kg-dry	1	08/30/2013 16:20	91484
Beryllium	NELAP	0.05	0.1		0.85	mg/Kg-dry	1	08/30/2013 16:20	91484
Boron	NELAP	0.96	1.92		9.82	mg/Kg-dry	1	08/30/2013 16:20	91484
Cadmium	NELAP	0.1	0.19		0.31	mg/Kg-dry	1	08/30/2013 16:20	91484
Calcium	NELAP	2.4	4.81		6240	mg/Kg-dry	1	08/30/2013 16:20	91484
Chromium	NELAP	0.48	0.96	X	22.3	mg/Kg-dry	1	08/30/2013 16:20	91484
Cobalt	NELAP	0.48	0.96		7.16	mg/Kg-dry	1	08/30/2013 16:20	91484
Copper	NELAP	0.48	0.96		25.2	mg/Kg-dry	1	08/30/2013 16:20	91484
Iron	NELAP	0.96	1.92	X	20300	mg/Kg-dry	1	08/30/2013 16:20	91484
Lead	NELAP	1.92	3.85		33	mg/Kg-dry	1	08/30/2013 16:20	91484
Magnesium	NELAP	0.48	0.96	B	3650	mg/Kg-dry	1	08/30/2013 16:20	91484
Manganese	NELAP	0.24	0.48		420	mg/Kg-dry	1	08/30/2013 16:20	91484
Nickel	NELAP	0.48	0.96		21.9	mg/Kg-dry	1	08/30/2013 16:20	91484
Potassium	NELAP	4.81	9.62		1550	mg/Kg-dry	1	08/30/2013 16:20	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 16:20	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-009

Client Sample ID: 1467V-1-B06-1

Matrix: SOLID

Collection Date: 08/27/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81		5120	mg/Kg-dry	1	08/30/2013 16:20	91484
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 16:20	91484
Vanadium	NELAP	0.48	0.96		36.4	mg/Kg-dry	1	08/30/2013 16:20	91484
Zinc	NELAP	0.48	0.96		71	mg/Kg-dry	1	09/03/2013 18:37	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 11:24	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.053	mg/Kg-dry	1	08/30/2013 10:33	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.17	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
1,2-Dichlorobenzene	NELAP	0.203	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
1,3-Dichlorobenzene	NELAP	0.215	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
1,4-Dichlorobenzene	NELAP	0.203	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4,5-Trichlorophenol	NELAP	0.121	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4,6-Trichlorophenol	NELAP	0.161	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4-Dichlorophenol	NELAP	0.155	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4-Dimethylphenol	NELAP	0.162	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4-Dinitrophenol	NELAP	0.137	1.28		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,4-Dinitrotoluene	NELAP	0.133	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2,6-Dinitrotoluene	NELAP	0.138	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2-Chloronaphthalene	NELAP	0.153	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2-Chlorophenol	NELAP	0.162	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2-Methylnaphthalene	NELAP	0.152	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2-Nitroaniline	NELAP	0.116	1.28		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
2-Nitrophenol	NELAP	0.143	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
3,3'-Dichlorobenzidine	NELAP	0.256	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
3-Nitroaniline	NELAP	0.105	1.28		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4,6-Dinitro-2-methylphenol	NELAP	0.138	1.28		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Bromophenyl phenyl ether	NELAP	0.118	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Chloro-3-methylphenol	NELAP	0.141	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Chloroaniline	NELAP	0.155	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Chlorophenyl phenyl ether	NELAP	0.127	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Nitroaniline	NELAP	0.116	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
4-Nitrophenol	NELAP	0.125	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Bis(2-chloroethoxy)methane	NELAP	0.15	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Bis(2-chloroethyl)ether	NELAP	0.181	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Bis(2-chloroisopropyl)ether	NELAP	0.146	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.15	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-009

Client Sample ID: 1467V-1-B06-1

Matrix: SOLID

Collection Date: 08/27/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.129	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Carbazole		0.156	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Dibenzofuran	NELAP	0.161	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Diethyl phthalate	NELAP	0.123	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Dimethyl phthalate	NELAP	0.116	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Di-n-butyl phthalate	NELAP	0.132	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Di-n-octyl phthalate	NELAP	0.133	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Hexachlorobenzene	NELAP	0.125	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Hexachlorobutadiene	NELAP	0.198	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Hexachlorocyclopentadiene	NELAP	0.13	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Hexachloroethane	NELAP	0.213	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Isophorone	NELAP	0.151	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
m,p-Cresol	NELAP	0.161	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Nitrobenzene	NELAP	0.16	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
N-Nitroso-di-n-propylamine	NELAP	0.141	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
N-Nitrosodiphenylamine	NELAP	0.118	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
o-Cresol	NELAP	0.151	0.639		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Pentachlorophenol	NELAP	0.844	2.56		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Phenol	NELAP	0.148	0.447		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	08/31/2013 8:25	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.7	%REC	1	08/31/2013 8:25	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		44.7	%REC	1	08/31/2013 8:25	91473
Surr: 2-Fluorophenol		0	30.5-99		56.2	%REC	1	08/31/2013 8:25	91473
Surr: Nitrobenzene-d5		0	34.1-101		66	%REC	1	08/31/2013 8:25	91473
Surr: Phenol-d5		0	34.9-110		59.8	%REC	1	08/31/2013 8:25	91473
Surr: p-Terphenyl-d14		0	41.7-124		66.5	%REC	1	08/31/2013 8:25	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
2-Butanone	NELAP	0.0092	0.046	J	0.022	mg/Kg-dry	1	08/30/2013 23:29	91559
2-Hexanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
4-Methyl-2-pentanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Acetone	NELAP	0.0092	0.046		0.119	mg/Kg-dry	1	08/30/2013 23:29	91559
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	08/30/2013 23:29	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-009

Client Sample ID: 1467V-1-B06-1

Matrix: SOLID

Collection Date: 08/27/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Vinyl acetate	NELAP	0.0185	0.046		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 23:29	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		123.2	%REC	1	08/30/2013 23:29	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		93.5	%REC	1	08/30/2013 23:29	91559
Surr: Dibromofluoromethane		0	77.7-120		105.9	%REC	1	08/30/2013 23:29	91559
Surr: Toluene-d8		0	86-116		104.3	%REC	1	08/30/2013 23:29	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-010

Client Sample ID: 1467V-1-B06-2

Matrix: SOLID

Collection Date: 08/27/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		22.3	%	1	08/29/2013 12:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		77.7	%	1	08/29/2013 12:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.94		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0256	mg/L	1	09/06/2013 16:38	91654
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 16:38	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0564	mg/L	1	09/03/2013 15:04	91540
Beryllium	NELAP	0.0003	0.001	J	0.0005	mg/L	1	09/03/2013 15:04	91540
Boron	NELAP	1	2	J	1.28	mg/L	1	09/03/2013 15:04	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:04	91540
Chromium	NELAP	0.004	0.01		0.0265	mg/L	1	09/03/2013 15:04	91540
Cobalt	NELAP	0.0022	0.01	J	0.0039	mg/L	1	09/03/2013 15:04	91540
Iron	NELAP	0.007	0.02	X	18.1	mg/L	1	09/03/2013 15:04	91540
Lead	NELAP	0.006	0.007	X	0.0083	mg/L	1	09/03/2013 15:04	91540
Manganese	NELAP	0.0016	0.005		0.0617	mg/L	1	09/03/2013 15:04	91540
Nickel	NELAP	0.0033	0.01		0.0137	mg/L	1	09/03/2013 15:04	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:04	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:04	91540
Zinc	NELAP	0.0021	0.01		0.0436	mg/L	1	09/03/2013 15:04	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:41	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:08	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 14:56	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		15400	mg/Kg-dry	1	09/03/2013 18:41	91484
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	08/30/2013 22:06	91500
Arsenic	NELAP	1.2	2.4		8.22	mg/Kg-dry	1	08/30/2013 16:26	91484
Barium	NELAP	0.24	0.48		85.2	mg/Kg-dry	1	08/30/2013 16:26	91484
Beryllium	NELAP	0.05	0.1		0.76	mg/Kg-dry	1	08/30/2013 16:26	91484
Boron	NELAP	0.96	1.92		9.37	mg/Kg-dry	1	08/30/2013 16:26	91484
Cadmium	NELAP	0.1	0.19	J	0.12	mg/Kg-dry	1	08/30/2013 16:26	91484
Calcium	NELAP	2.4	4.81		28700	mg/Kg-dry	1	08/30/2013 16:26	91484
Chromium	NELAP	0.48	0.96	X	22.5	mg/Kg-dry	1	08/30/2013 16:26	91484
Cobalt	NELAP	0.48	0.96		7.73	mg/Kg-dry	1	08/30/2013 16:26	91484
Copper	NELAP	0.48	0.96		28.2	mg/Kg-dry	1	08/30/2013 16:26	91484
Iron	NELAP	0.96	1.92	X	26500	mg/Kg-dry	1	08/30/2013 16:26	91484
Lead	NELAP	1.92	3.85		14.8	mg/Kg-dry	1	08/30/2013 16:26	91484
Magnesium	NELAP	0.48	0.96	B	17700	mg/Kg-dry	1	08/30/2013 16:26	91484
Manganese	NELAP	0.24	0.48		185	mg/Kg-dry	1	08/30/2013 16:26	91484
Nickel	NELAP	0.48	0.96		22.4	mg/Kg-dry	1	08/30/2013 16:26	91484
Potassium	NELAP	4.81	9.62		2180	mg/Kg-dry	1	08/30/2013 16:26	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 16:26	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-010

Client Sample ID: 1467V-1-B06-2

Matrix: SOLID

Collection Date: 08/27/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81		2570	mg/Kg-dry	1	08/30/2013 16:26	91484
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 16:26	91484
Vanadium	NELAP	0.48	0.96		52.5	mg/Kg-dry	1	08/30/2013 16:26	91484
Zinc	NELAP	0.48	0.96		59.6	mg/Kg-dry	1	09/03/2013 18:41	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 11:27	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.04	mg/Kg-dry	1	08/30/2013 10:35	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.858	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
1,2-Dichlorobenzene	NELAP	1.03	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
1,3-Dichlorobenzene	NELAP	1.08	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
1,4-Dichlorobenzene	NELAP	1.03	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4,5-Trichlorophenol	NELAP	0.613	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4,6-Trichlorophenol	NELAP	0.813	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4-Dichlorophenol	NELAP	0.781	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4-Dimethylphenol	NELAP	0.82	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4-Dinitrophenol	NELAP	0.691	6.45		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,4-Dinitrotoluene	NELAP	0.671	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2,6-Dinitrotoluene	NELAP	0.697	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2-Chloronaphthalene	NELAP	0.774	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2-Chlorophenol	NELAP	0.82	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2-Methylnaphthalene	NELAP	0.768	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2-Nitroaniline	NELAP	0.587	6.45		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
2-Nitrophenol	NELAP	0.723	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
3,3'-Dichlorobenzidine	NELAP	1.29	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
3-Nitroaniline	NELAP	0.529	6.45		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4,6-Dinitro-2-methylphenol	NELAP	0.697	6.45		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Bromophenyl phenyl ether	NELAP	0.594	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Chloro-3-methylphenol	NELAP	0.71	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Chloroaniline	NELAP	0.781	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Chlorophenyl phenyl ether	NELAP	0.639	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Nitroaniline	NELAP	0.587	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
4-Nitrophenol	NELAP	0.632	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Acenaphthene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Acenaphthylene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Anthracene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Benzo(a)anthracene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Benzo(a)pyrene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Benzo(b)fluoranthene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Benzo(g,h,i)perylene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Benzo(k)fluoranthene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Bis(2-chloroethoxy)methane	NELAP	0.755	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Bis(2-chloroethyl)ether	NELAP	0.916	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Bis(2-chloroisopropyl)ether	NELAP	0.736	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.755	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-010

Client Sample ID: 1467V-1-B06-2

Matrix: SOLID

Collection Date: 08/27/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.652	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Carbazole		0.787	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Chrysene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Dibenzo(a,h)anthracene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Dibenzofuran	NELAP	0.813	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Diethyl phthalate	NELAP	0.62	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Dimethyl phthalate	NELAP	0.587	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Di-n-butyl phthalate	NELAP	0.665	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Di-n-octyl phthalate	NELAP	0.671	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Fluoranthene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Fluorene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Hexachlorobenzene	NELAP	0.632	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Hexachlorobutadiene	NELAP	1	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Hexachlorocyclopentadiene	NELAP	0.658	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Hexachloroethane	NELAP	1.08	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Isophorone	NELAP	0.761	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
m,p-Cresol	NELAP	0.813	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Naphthalene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Nitrobenzene	NELAP	0.807	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
N-Nitroso-di-n-propylamine	NELAP	0.71	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
N-Nitrosodiphenylamine	NELAP	0.594	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
o-Cresol	NELAP	0.761	3.23		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Pentachlorophenol	NELAP	4.26	12.9		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Phenanthrene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Phenol	NELAP	0.749	2.26		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Pyrene	NELAP	0.108	0.219		ND	mg/Kg-dry	5	08/31/2013 8:57	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.2	%REC	5	08/31/2013 8:57	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		58	%REC	5	08/31/2013 8:57	91473
Surr: 2-Fluorophenol		0	30.5-99		60.9	%REC	5	08/31/2013 8:57	91473
Surr: Nitrobenzene-d5		0	34.1-101		71.1	%REC	5	08/31/2013 8:57	91473
Surr: Phenol-d5		0	34.9-110		64.4	%REC	5	08/31/2013 8:57	91473
Surr: p-Terphenyl-d14		0	41.7-124		67.5	%REC	5	08/31/2013 8:57	91473

Elevated reporting limit due to sample extract composition.

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,1,2-Trichloroethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,1-Dichloroethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,1-Dichloroethene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,2-Dichloroethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,2-Dichloropropane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
1,3-Dichloropropene, Total		0.0012	0.005		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
2-Butanone	NELAP	0.0121	0.06		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
2-Hexanone	NELAP	0.0121	0.06		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
4-Methyl-2-pentanone	NELAP	0.0121	0.06		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Acetone	NELAP	0.0121	0.06	J	0.036	mg/Kg-dry	1	08/30/2013 23:55	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-010

Client Sample ID: 1467V-1-B06-2

Matrix: SOLID

Collection Date: 08/27/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0006	0.001		0.002	mg/Kg-dry	1	08/30/2013 23:55	91559
Bromodichloromethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Bromoform	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Bromomethane	NELAP	0.0024	0.012		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Carbon disulfide	NELAP	0.0036	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Carbon tetrachloride	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Chlorobenzene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Chloroethane	NELAP	0.0024	0.012		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Chloroform	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Chloromethane	NELAP	0.0024	0.012		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
cis-1,2-Dichloroethene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
cis-1,3-Dichloropropene	NELAP	0.0012	0.005		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Dibromochloromethane	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Ethylbenzene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
m,p-Xylenes	NELAP	0.0012	0.006	J	0.001	mg/Kg-dry	1	08/30/2013 23:55	91559
Methyl tert-butyl ether	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Methylene chloride	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
o-Xylene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Styrene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Tetrachloroethene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Toluene	NELAP	0.0012	0.006	J	0.003	mg/Kg-dry	1	08/30/2013 23:55	91559
trans-1,2-Dichloroethene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
trans-1,3-Dichloropropene	NELAP	0.0012	0.005		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Trichloroethene	NELAP	0.0012	0.006		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Vinyl acetate	NELAP	0.0242	0.06		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Vinyl chloride	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	08/30/2013 23:55	91559
Xylenes, Total	NELAP	0.0012	0.006	J	0.001	mg/Kg-dry	1	08/30/2013 23:55	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120.1	%REC	1	08/30/2013 23:55	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		101.4	%REC	1	08/30/2013 23:55	91559
Surr: Dibromofluoromethane		0	77.7-120		103	%REC	1	08/30/2013 23:55	91559
Surr: Toluene-d8		0	86-116		98.7	%REC	1	08/30/2013 23:55	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-011

Client Sample ID: 1467V-1-B07-1

Matrix: SOLID

Collection Date: 08/27/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19	%	1	08/29/2013 12:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81	%	1	08/29/2013 12:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.79		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0289	mg/L	1	09/03/2013 15:08	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 15:08	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:08	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:08	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 15:08	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 15:08	91540
Iron	NELAP	0.007	0.02		1.74	mg/L	1	09/03/2013 15:08	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 15:08	91540
Manganese	NELAP	0.0016	0.005		0.0083	mg/L	1	09/03/2013 15:08	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 15:08	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:08	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:08	91540
Zinc	NELAP	0.0021	0.01	J	0.0065	mg/L	1	09/03/2013 15:08	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:45	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:11	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:03	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		16400	mg/Kg-dry	1	09/03/2013 18:45	91484
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	08/30/2013 22:10	91500
Arsenic	NELAP	1.2	2.4		10.4	mg/Kg-dry	1	08/30/2013 16:32	91484
Barium	NELAP	0.24	0.48		126	mg/Kg-dry	1	08/30/2013 16:32	91484
Beryllium	NELAP	0.05	0.1		0.65	mg/Kg-dry	1	08/30/2013 16:32	91484
Boron	NELAP	0.96	1.92		8.23	mg/Kg-dry	1	08/30/2013 16:32	91484
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 16:32	91484
Calcium	NELAP	2.4	4.81		8340	mg/Kg-dry	1	08/30/2013 16:32	91484
Chromium	NELAP	0.48	0.96	X	23.1	mg/Kg-dry	1	08/30/2013 16:32	91484
Cobalt	NELAP	0.48	0.96		5.73	mg/Kg-dry	1	08/30/2013 16:32	91484
Copper	NELAP	0.48	0.96		9.13	mg/Kg-dry	1	08/30/2013 16:32	91484
Iron	NELAP	0.96	1.92	X	20600	mg/Kg-dry	1	08/30/2013 16:32	91484
Lead	NELAP	1.92	3.85		10.8	mg/Kg-dry	1	08/30/2013 16:32	91484
Magnesium	NELAP	0.48	0.96	B	6240	mg/Kg-dry	1	08/30/2013 16:32	91484
Manganese	NELAP	0.24	0.48		195	mg/Kg-dry	1	08/30/2013 16:32	91484
Nickel	NELAP	0.48	0.96		16	mg/Kg-dry	1	08/30/2013 16:32	91484
Potassium	NELAP	4.81	9.62		1690	mg/Kg-dry	1	08/30/2013 16:32	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 16:32	91484
Sodium	NELAP	2.4	4.81		148	mg/Kg-dry	1	08/30/2013 16:32	91484
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 16:32	91484
Vanadium	NELAP	0.48	0.96		38.3	mg/Kg-dry	1	08/30/2013 16:32	91484
Zinc	NELAP	0.48	0.96		53.7	mg/Kg-dry	1	09/03/2013 18:45	91484



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-011

Client Sample ID: 1467V-1-B07-1

Matrix: SOLID

Collection Date: 08/27/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	08/30/2013 11:30	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.023	mg/Kg-dry	1	08/30/2013 10:37	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.164	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
1,2-Dichlorobenzene	NELAP	0.196	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
1,3-Dichlorobenzene	NELAP	0.207	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
1,4-Dichlorobenzene	NELAP	0.196	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4,5-Trichlorophenol	NELAP	0.117	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4,6-Trichlorophenol	NELAP	0.155	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4-Dichlorophenol	NELAP	0.149	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4-Dimethylphenol	NELAP	0.156	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4-Dinitrophenol	NELAP	0.132	1.23		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,4-Dinitrotoluene	NELAP	0.128	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2,6-Dinitrotoluene	NELAP	0.133	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2-Chloronaphthalene	NELAP	0.148	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2-Chlorophenol	NELAP	0.156	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2-Methylnaphthalene	NELAP	0.146	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2-Nitroaniline	NELAP	0.112	1.23		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
2-Nitrophenol	NELAP	0.138	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
3,3'-Dichlorobenzidine	NELAP	0.246	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
3-Nitroaniline	NELAP	0.101	1.23		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4,6-Dinitro-2-methylphenol	NELAP	0.133	1.23		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Bromophenyl phenyl ether	NELAP	0.113	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Chloro-3-methylphenol	NELAP	0.135	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Chloroaniline	NELAP	0.149	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Chlorophenyl phenyl ether	NELAP	0.122	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Nitroaniline	NELAP	0.112	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
4-Nitrophenol	NELAP	0.121	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Bis(2-chloroethoxy)methane	NELAP	0.144	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Bis(2-chloroethyl)ether	NELAP	0.175	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Bis(2-chloroisopropyl)ether	NELAP	0.14	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.144	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Butyl benzyl phthalate	NELAP	0.124	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Carbazole		0.15	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-011

Client Sample ID: 1467V-1-B07-1

Matrix: SOLID

Collection Date: 08/27/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzofuran	NELAP	0.155	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Diethyl phthalate	NELAP	0.118	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Dimethyl phthalate	NELAP	0.112	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Di-n-butyl phthalate	NELAP	0.127	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Di-n-octyl phthalate	NELAP	0.128	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Hexachlorobenzene	NELAP	0.121	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Hexachlorobutadiene	NELAP	0.191	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Hexachlorocyclopentadiene	NELAP	0.125	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Hexachloroethane	NELAP	0.205	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Isophorone	NELAP	0.145	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
m,p-Cresol	NELAP	0.155	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Nitrobenzene	NELAP	0.154	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
N-Nitroso-di-n-propylamine	NELAP	0.135	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
N-Nitrosodiphenylamine	NELAP	0.113	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
o-Cresol	NELAP	0.145	0.615		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Pentachlorophenol	NELAP	0.812	2.46		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Phenol	NELAP	0.143	0.43		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	08/31/2013 9:30	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		66.5	%REC	1	08/31/2013 9:30	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		54.9	%REC	1	08/31/2013 9:30	91473
Surr: 2-Fluorophenol		0	30.5-99		59.6	%REC	1	08/31/2013 9:30	91473
Surr: Nitrobenzene-d5		0	34.1-101		74.4	%REC	1	08/31/2013 9:30	91473
Surr: Phenol-d5		0	34.9-110		62.7	%REC	1	08/31/2013 9:30	91473
Surr: p-Terphenyl-d14		0	41.7-124		66.5	%REC	1	08/31/2013 9:30	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
2-Butanone	NELAP	0.0079	0.039	J	0.012	mg/Kg-dry	1	08/31/2013 0:21	91559
2-Hexanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
4-Methyl-2-pentanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Acetone	NELAP	0.0079	0.039		0.093	mg/Kg-dry	1	08/31/2013 0:21	91559
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-011

Client Sample ID: 1467V-1-B07-1

Matrix: SOLID

Collection Date: 08/27/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Methylene chloride	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/31/2013 0:21	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Vinyl acetate	NELAP	0.0158	0.039		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 0:21	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		118.8	%REC	1	08/31/2013 0:21	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		100	%REC	1	08/31/2013 0:21	91559
Surr: Dibromofluoromethane		0	77.7-120		102.8	%REC	1	08/31/2013 0:21	91559
Surr: Toluene-d8		0	86-116		99.2	%REC	1	08/31/2013 0:21	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-012

Client Sample ID: 1467V-1-B07-1 DUP

Matrix: SOLID

Collection Date: 08/27/2013 13:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		15.6	%	1	08/29/2013 12:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		84.4	%	1	08/29/2013 12:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.72		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0161	mg/L	1	09/03/2013 15:11	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 15:11	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:11	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:11	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 15:11	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 15:11	91540
Iron	NELAP	0.007	0.02		1.56	mg/L	1	09/03/2013 15:11	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 15:11	91540
Manganese	NELAP	0.0016	0.005		0.0053	mg/L	1	09/03/2013 15:11	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 15:11	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:11	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:11	91540
Zinc	NELAP	0.0021	0.01	J	0.0082	mg/L	1	09/03/2013 15:11	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 9:49	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:14	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:05	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		8780	mg/Kg-dry	1	09/03/2013 18:48	91484
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	08/30/2013 22:13	91500
Arsenic	NELAP	1.23	2.45		2.88	mg/Kg-dry	1	08/30/2013 16:38	91484
Barium	NELAP	0.25	0.49		57.3	mg/Kg-dry	1	08/30/2013 16:38	91484
Beryllium	NELAP	0.05	0.1		0.39	mg/Kg-dry	1	08/30/2013 16:38	91484
Boron	NELAP	0.98	1.96		5.32	mg/Kg-dry	1	08/30/2013 16:38	91484
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 16:38	91484
Calcium	NELAP	2.45	4.9		30600	mg/Kg-dry	1	08/30/2013 16:38	91484
Chromium	NELAP	0.49	0.98	X	14.7	mg/Kg-dry	1	08/30/2013 16:38	91484
Cobalt	NELAP	0.49	0.98		2.91	mg/Kg-dry	1	08/30/2013 16:38	91484
Copper	NELAP	0.49	0.98		12.8	mg/Kg-dry	1	08/30/2013 16:38	91484
Iron	NELAP	0.98	1.96		11100	mg/Kg-dry	1	08/30/2013 16:38	91484
Lead	NELAP	1.96	3.92		8.26	mg/Kg-dry	1	08/30/2013 16:38	91484
Magnesium	NELAP	0.49	0.98	B	17900	mg/Kg-dry	1	08/30/2013 16:38	91484
Manganese	NELAP	0.25	0.49		96.4	mg/Kg-dry	1	08/30/2013 16:38	91484
Nickel	NELAP	0.49	0.98		10.3	mg/Kg-dry	1	08/30/2013 16:38	91484
Potassium	NELAP	4.9	9.8		912	mg/Kg-dry	1	08/30/2013 16:38	91484
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 16:38	91484
Sodium	NELAP	2.45	4.9		130	mg/Kg-dry	1	08/30/2013 16:38	91484
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 16:38	91484
Vanadium	NELAP	0.49	0.98		26.3	mg/Kg-dry	1	08/30/2013 16:38	91484
Zinc	NELAP	0.49	0.98		30.4	mg/Kg-dry	1	09/03/2013 18:48	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-012

Client Sample ID: 1467V-1-B07-1 DUP

Matrix: SOLID

Collection Date: 08/27/2013 13:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	08/30/2013 11:34	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.028	mg/Kg-dry	1	08/30/2013 10:39	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.157	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
1,2-Dichlorobenzene	NELAP	0.188	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
1,3-Dichlorobenzene	NELAP	0.198	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
1,4-Dichlorobenzene	NELAP	0.188	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4,5-Trichlorophenol	NELAP	0.112	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4,6-Trichlorophenol	NELAP	0.149	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4-Dichlorophenol	NELAP	0.143	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4-Dimethylphenol	NELAP	0.15	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4-Dinitrophenol	NELAP	0.126	1.18		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,4-Dinitrotoluene	NELAP	0.123	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2,6-Dinitrotoluene	NELAP	0.127	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2-Chloronaphthalene	NELAP	0.142	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2-Chlorophenol	NELAP	0.15	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2-Methylnaphthalene	NELAP	0.14	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2-Nitroaniline	NELAP	0.107	1.18		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
2-Nitrophenol	NELAP	0.132	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
3,3'-Dichlorobenzidine	NELAP	0.236	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
3-Nitroaniline	NELAP	0.097	1.18		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4,6-Dinitro-2-methylphenol	NELAP	0.127	1.18		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Bromophenyl phenyl ether	NELAP	0.109	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Chloro-3-methylphenol	NELAP	0.13	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Chloroaniline	NELAP	0.143	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Chlorophenyl phenyl ether	NELAP	0.117	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Nitroaniline	NELAP	0.107	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
4-Nitrophenol	NELAP	0.116	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Acenaphthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Acenaphthylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Benzo(a)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Benzo(a)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Benzo(b)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Benzo(g,h,i)perylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Benzo(k)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Bis(2-chloroethoxy)methane	NELAP	0.138	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Bis(2-chloroethyl)ether	NELAP	0.168	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Bis(2-chloroisopropyl)ether	NELAP	0.135	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.138	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Butyl benzyl phthalate	NELAP	0.119	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Carbazole		0.144	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Chrysene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Dibenzo(a,h)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-012

Client Sample ID: 1467V-1-B07-1 DUP

Matrix: SOLID

Collection Date: 08/27/2013 13:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzofuran	NELAP	0.149	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Diethyl phthalate	NELAP	0.113	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Dimethyl phthalate	NELAP	0.107	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Di-n-butyl phthalate	NELAP	0.122	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Di-n-octyl phthalate	NELAP	0.123	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Fluorene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Hexachlorobenzene	NELAP	0.116	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Hexachlorobutadiene	NELAP	0.183	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Hexachlorocyclopentadiene	NELAP	0.12	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Hexachloroethane	NELAP	0.197	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Isophorone	NELAP	0.139	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
m,p-Cresol	NELAP	0.149	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Naphthalene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Nitrobenzene	NELAP	0.148	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
N-Nitroso-di-n-propylamine	NELAP	0.13	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
N-Nitrosodiphenylamine	NELAP	0.109	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
o-Cresol	NELAP	0.139	0.59		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Pentachlorophenol	NELAP	0.779	2.36		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Phenanthrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Phenol	NELAP	0.137	0.413		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 0:36	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		61.3	%REC	1	08/31/2013 0:36	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		56	%REC	1	08/31/2013 0:36	91473
Surr: 2-Fluorophenol		0	30.5-99		58.7	%REC	1	08/31/2013 0:36	91473
Surr: Nitrobenzene-d5		0	34.1-101		68.6	%REC	1	08/31/2013 0:36	91473
Surr: Phenol-d5		0	34.9-110		62.5	%REC	1	08/31/2013 0:36	91473
Surr: p-Terphenyl-d14		0	41.7-124		65	%REC	1	08/31/2013 0:36	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
2-Butanone	NELAP	0.009	0.045	J	0.011	mg/Kg-dry	1	08/31/2013 0:47	91559
2-Hexanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
4-Methyl-2-pentanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Acetone	NELAP	0.009	0.045		0.131	mg/Kg-dry	1	08/31/2013 0:47	91559
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-012

Client Sample ID: 1467V-1-B07-1 DUP

Matrix: SOLID

Collection Date: 08/27/2013 13:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
m,p-Xylenes	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	08/31/2013 0:47	91559
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Methylene chloride	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	08/31/2013 0:47	91559
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Vinyl acetate	NELAP	0.018	0.045		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/31/2013 0:47	91559
Xylenes, Total	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	08/31/2013 0:47	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		118.5	%REC	1	08/31/2013 0:47	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		101.1	%REC	1	08/31/2013 0:47	91559
Surr: Dibromofluoromethane		0	77.7-120		102.9	%REC	1	08/31/2013 0:47	91559
Surr: Toluene-d8		0	86-116		99.2	%REC	1	08/31/2013 0:47	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-013

Client Sample ID: 1467V-1-B07-2

Matrix: SOLID

Collection Date: 08/27/2013 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		7.9	%	1	08/29/2013 12:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		92.1	%	1	08/29/2013 12:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.13		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0063	mg/L	1	09/03/2013 15:22	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 15:22	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:22	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:22	91540
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/03/2013 15:22	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 15:22	91540
Iron	NELAP	0.007	0.02		0.127	mg/L	1	09/03/2013 15:22	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 15:22	91540
Manganese	NELAP	0.0016	0.005		< 0.005	mg/L	1	09/03/2013 15:22	91540
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/03/2013 15:22	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:22	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:22	91540
Zinc	NELAP	0.0021	0.01		0.0108	mg/L	1	09/03/2013 15:22	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 10:07	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:18	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:07	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		3480	mg/Kg-dry	1	09/03/2013 18:52	91484
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	08/30/2013 22:24	91500
Arsenic	NELAP	1.2	2.4		4.27	mg/Kg-dry	1	08/30/2013 16:44	91484
Barium	NELAP	0.24	0.48		14.2	mg/Kg-dry	1	08/30/2013 16:44	91484
Beryllium	NELAP	0.05	0.1		0.24	mg/Kg-dry	1	08/30/2013 16:44	91484
Boron	NELAP	0.96	1.92		4.66	mg/Kg-dry	1	08/30/2013 16:44	91484
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 16:44	91484
Calcium	NELAP	2.4	4.81		71800	mg/Kg-dry	1	08/30/2013 16:44	91484
Chromium	NELAP	0.48	0.96		9.14	mg/Kg-dry	1	08/30/2013 16:44	91484
Cobalt	NELAP	0.48	0.96		2.32	mg/Kg-dry	1	08/30/2013 16:44	91484
Copper	NELAP	0.48	0.96		10.2	mg/Kg-dry	1	08/30/2013 16:44	91484
Iron	NELAP	0.96	1.92		9070	mg/Kg-dry	1	08/30/2013 16:44	91484
Lead	NELAP	1.92	3.85		3.87	mg/Kg-dry	1	08/30/2013 16:44	91484
Magnesium	NELAP	0.48	0.96	B	31600	mg/Kg-dry	1	08/30/2013 16:44	91484
Manganese	NELAP	0.24	0.48		157	mg/Kg-dry	1	08/30/2013 16:44	91484
Nickel	NELAP	0.48	0.96		7.25	mg/Kg-dry	1	08/30/2013 16:44	91484
Potassium	NELAP	4.81	9.62		611	mg/Kg-dry	1	08/30/2013 16:44	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 16:44	91484
Sodium	NELAP	2.4	4.81		109	mg/Kg-dry	1	08/30/2013 16:44	91484
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 16:44	91484
Vanadium	NELAP	0.48	0.96		20.4	mg/Kg-dry	1	08/30/2013 16:44	91484
Zinc	NELAP	0.48	0.96		17.9	mg/Kg-dry	1	09/03/2013 18:52	91484



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-013

Client Sample ID: 1467V-1-B07-2

Matrix: SOLID

Collection Date: 08/27/2013 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	08/30/2013 11:44	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.01		< 0.01	mg/Kg-dry	1	08/30/2013 10:42	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.144	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
1,2-Dichlorobenzene	NELAP	0.173	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
1,3-Dichlorobenzene	NELAP	0.182	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
1,4-Dichlorobenzene	NELAP	0.173	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4,5-Trichlorophenol	NELAP	0.103	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4,6-Trichlorophenol	NELAP	0.137	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4-Dichlorophenol	NELAP	0.131	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4-Dimethylphenol	NELAP	0.138	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4-Dinitrophenol	NELAP	0.116	1.09		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,4-Dinitrotoluene	NELAP	0.113	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2,6-Dinitrotoluene	NELAP	0.117	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2-Chloronaphthalene	NELAP	0.13	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2-Chlorophenol	NELAP	0.138	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2-Methylnaphthalene	NELAP	0.129	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2-Nitroaniline	NELAP	0.099	1.09		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
2-Nitrophenol	NELAP	0.122	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
3,3'-Dichlorobenzidine	NELAP	0.217	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
3-Nitroaniline	NELAP	0.089	1.09		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4,6-Dinitro-2-methylphenol	NELAP	0.117	1.09		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Bromophenyl phenyl ether	NELAP	0.1	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Chloro-3-methylphenol	NELAP	0.119	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Chloroaniline	NELAP	0.131	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Chlorophenyl phenyl ether	NELAP	0.107	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Nitroaniline	NELAP	0.099	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
4-Nitrophenol	NELAP	0.106	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Bis(2-chloroethoxy)methane	NELAP	0.127	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Bis(2-chloroethyl)ether	NELAP	0.154	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Bis(2-chloroisopropyl)ether	NELAP	0.124	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.127	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Butyl benzyl phthalate	NELAP	0.11	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Carbazole		0.132	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-013

Client Sample ID: 1467V-1-B07-2

Matrix: SOLID

Collection Date: 08/27/2013 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzofuran	NELAP	0.137	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Diethyl phthalate	NELAP	0.104	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Dimethyl phthalate	NELAP	0.099	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Di-n-butyl phthalate	NELAP	0.112	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Di-n-octyl phthalate	NELAP	0.113	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Hexachlorobenzene	NELAP	0.106	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Hexachlorobutadiene	NELAP	0.168	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Hexachlorocyclopentadiene	NELAP	0.111	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Hexachloroethane	NELAP	0.181	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Isophorone	NELAP	0.128	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
m,p-Cresol	NELAP	0.137	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Nitrobenzene	NELAP	0.136	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
N-Nitroso-di-n-propylamine	NELAP	0.119	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
N-Nitrosodiphenylamine	NELAP	0.1	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
o-Cresol	NELAP	0.128	0.543		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Pentachlorophenol	NELAP	0.716	2.17		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Phenol	NELAP	0.126	0.38		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/31/2013 1:08	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.7	%REC	1	08/31/2013 1:08	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		65	%REC	1	08/31/2013 1:08	91473
Surr: 2-Fluorophenol		0	30.5-99		65	%REC	1	08/31/2013 1:08	91473
Surr: Nitrobenzene-d5		0	34.1-101		66.1	%REC	1	08/31/2013 1:08	91473
Surr: Phenol-d5		0	34.9-110		66	%REC	1	08/31/2013 1:08	91473
Surr: p-Terphenyl-d14		0	41.7-124		71.5	%REC	1	08/31/2013 1:08	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
2-Butanone	NELAP	0.0099	0.049		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
2-Hexanone	NELAP	0.0099	0.049		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
4-Methyl-2-pentanone	NELAP	0.0099	0.049		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Acetone	NELAP	0.0099	0.049	J	0.029	mg/Kg-dry	1	08/31/2013 1:13	91559
Benzene	NELAP	0.0005	0.001		0.004	mg/Kg-dry	1	08/31/2013 1:13	91559
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Carbon disulfide	NELAP	0.003	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-013

Client Sample ID: 1467V-1-B07-2

Matrix: SOLID

Collection Date: 08/27/2013 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Ethylbenzene	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	08/31/2013 1:13	91559
m,p-Xylenes	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	08/31/2013 1:13	91559
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
o-Xylene	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	08/31/2013 1:13	91559
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Toluene	NELAP	0.001	0.005		0.006	mg/Kg-dry	1	08/31/2013 1:13	91559
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Vinyl acetate	NELAP	0.0198	0.049		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/31/2013 1:13	91559
Xylenes, Total	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	08/31/2013 1:13	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		114.9	%REC	1	08/31/2013 1:13	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		99.1	%REC	1	08/31/2013 1:13	91559
Surr: Dibromofluoromethane		0	77.7-120		101.3	%REC	1	08/31/2013 1:13	91559
Surr: Toluene-d8		0	86-116		99.7	%REC	1	08/31/2013 1:13	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-014

Client Sample ID: 1467V-1-B08-1

Matrix: SOLID

Collection Date: 08/27/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.9	%	1	08/29/2013 12:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.1	%	1	08/29/2013 12:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.88		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0331	mg/L	1	09/06/2013 16:42	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.154	mg/L	1	09/03/2013 15:26	91540
Beryllium	NELAP	0.0003	0.001	J	0.0006	mg/L	1	09/03/2013 15:26	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:26	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:26	91540
Chromium	NELAP	0.004	0.01		0.0312	mg/L	1	09/03/2013 15:26	91540
Cobalt	NELAP	0.0022	0.01	J	0.0032	mg/L	1	09/03/2013 15:26	91540
Iron	NELAP	0.007	0.02	X	24.2	mg/L	1	09/03/2013 15:26	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 15:26	91540
Manganese	NELAP	0.0016	0.005		0.0672	mg/L	1	09/03/2013 15:26	91540
Nickel	NELAP	0.0033	0.01		0.0154	mg/L	1	09/03/2013 15:26	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:26	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:26	91540
Zinc	NELAP	0.0021	0.01		0.0555	mg/L	1	09/03/2013 15:26	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 10:11	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:21	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:14	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		16600	mg/Kg-dry	1	09/03/2013 19:03	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 22:28	91500
Arsenic	NELAP	1.14	2.27		7.53	mg/Kg-dry	1	08/30/2013 17:02	91484
Barium	NELAP	0.23	0.45		197	mg/Kg-dry	1	08/30/2013 17:02	91484
Beryllium	NELAP	0.05	0.09		0.72	mg/Kg-dry	1	08/30/2013 17:02	91484
Boron	NELAP	0.91	1.82		8.05	mg/Kg-dry	1	08/30/2013 17:02	91484
Cadmium	NELAP	0.09	0.18		0.19	mg/Kg-dry	1	08/30/2013 17:02	91484
Calcium	NELAP	2.27	4.55		6800	mg/Kg-dry	1	08/30/2013 17:02	91484
Chromium	NELAP	0.45	0.91	X	23.9	mg/Kg-dry	1	08/30/2013 17:02	91484
Cobalt	NELAP	0.45	0.91		12	mg/Kg-dry	1	08/30/2013 17:02	91484
Copper	NELAP	0.45	0.91		17	mg/Kg-dry	1	08/30/2013 17:02	91484
Iron	NELAP	0.91	1.82	X	21600	mg/Kg-dry	1	08/30/2013 17:02	91484
Lead	NELAP	1.82	3.64		12.9	mg/Kg-dry	1	08/30/2013 17:02	91484
Magnesium	NELAP	0.45	0.91	B	5660	mg/Kg-dry	1	08/30/2013 17:02	91484
Manganese	NELAP	0.23	0.45	X	881	mg/Kg-dry	1	08/30/2013 17:02	91484
Nickel	NELAP	0.45	0.91		23.8	mg/Kg-dry	1	08/30/2013 17:02	91484
Potassium	NELAP	4.55	9.09		1790	mg/Kg-dry	1	08/30/2013 17:02	91484
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	08/30/2013 17:02	91484
Sodium	NELAP	2.27	4.55		1210	mg/Kg-dry	1	08/30/2013 17:02	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-014

Client Sample ID: 1467V-1-B08-1

Matrix: SOLID

Collection Date: 08/27/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	08/30/2013 17:02	91484
Vanadium	NELAP	0.45	0.91		41.2	mg/Kg-dry	1	08/30/2013 17:02	91484
Zinc	NELAP	0.45	0.91		55.7	mg/Kg-dry	1	09/03/2013 19:03	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	08/30/2013 11:47	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.032	mg/Kg-dry	1	08/30/2013 10:48	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.162	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
1,2-Dichlorobenzene	NELAP	0.194	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
1,3-Dichlorobenzene	NELAP	0.205	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
1,4-Dichlorobenzene	NELAP	0.194	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4,5-Trichlorophenol	NELAP	0.116	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4,6-Trichlorophenol	NELAP	0.154	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4-Dichlorophenol	NELAP	0.148	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4-Dimethylphenol	NELAP	0.155	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4-Dinitrophenol	NELAP	0.13	1.22		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,4-Dinitrotoluene	NELAP	0.127	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2,6-Dinitrotoluene	NELAP	0.132	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2-Chloronaphthalene	NELAP	0.146	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2-Chlorophenol	NELAP	0.155	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2-Methylnaphthalene	NELAP	0.145	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
2-Nitrophenol	NELAP	0.137	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
3,3'-Dichlorobenzidine	NELAP	0.244	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Bromophenyl phenyl ether	NELAP	0.112	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Chloro-3-methylphenol	NELAP	0.134	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Chloroaniline	NELAP	0.148	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Chlorophenyl phenyl ether	NELAP	0.121	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Nitroaniline	NELAP	0.111	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
4-Nitrophenol	NELAP	0.119	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Bis(2-chloroethoxy)methane	NELAP	0.143	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Bis(2-chloroethyl)ether	NELAP	0.173	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Butyl benzyl phthalate	NELAP	0.123	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-014

Client Sample ID: 1467V-1-B08-1

Matrix: SOLID

Collection Date: 08/27/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.149	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Dibenzofuran	NELAP	0.154	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Diethyl phthalate	NELAP	0.117	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Dimethyl phthalate	NELAP	0.111	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Di-n-butyl phthalate	NELAP	0.126	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Di-n-octyl phthalate	NELAP	0.127	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Hexachlorobenzene	NELAP	0.119	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Hexachlorobutadiene	NELAP	0.189	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Hexachlorocyclopentadiene	NELAP	0.124	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Hexachloroethane	NELAP	0.204	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Isophorone	NELAP	0.144	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
m,p-Cresol	NELAP	0.154	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Nitrobenzene	NELAP	0.152	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
N-Nitroso-di-n-propylamine	NELAP	0.134	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
N-Nitrosodiphenylamine	NELAP	0.112	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
o-Cresol	NELAP	0.144	0.61		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Pentachlorophenol	NELAP	0.805	2.44		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Phenol	NELAP	0.141	0.427		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 5:42	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		60.2	%REC	1	08/31/2013 5:42	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		51.4	%REC	1	08/31/2013 5:42	91473
Surr: 2-Fluorophenol		0	30.5-99		58.1	%REC	1	08/31/2013 5:42	91473
Surr: Nitrobenzene-d5		0	34.1-101		61	%REC	1	08/31/2013 5:42	91473
Surr: Phenol-d5		0	34.9-110		59.7	%REC	1	08/31/2013 5:42	91473
Surr: p-Terphenyl-d14		0	41.7-124		61.9	%REC	1	08/31/2013 5:42	91473

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
2-Butanone	NELAP	0.0085	0.042		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
2-Hexanone	NELAP	0.0085	0.042		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
4-Methyl-2-pentanone	NELAP	0.0085	0.042		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Acetone	NELAP	0.0085	0.042	J	0.033	mg/Kg-dry	1	08/31/2013 1:38	91559
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-014

Client Sample ID: 1467V-1-B08-1

Matrix: SOLID

Collection Date: 08/27/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Bromomethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Chloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Chloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Toluene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/31/2013 1:38	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Vinyl acetate	NELAP	0.017	0.042		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 1:38	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120.7	%REC	1	08/31/2013 1:38	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		100.6	%REC	1	08/31/2013 1:38	91559
Surr: Dibromofluoromethane		0	77.7-120		102.8	%REC	1	08/31/2013 1:38	91559
Surr: Toluene-d8		0	86-116		99.7	%REC	1	08/31/2013 1:38	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-015

Client Sample ID: 1467V-1-B08-2

Matrix: SOLID

Collection Date: 08/27/2013 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.1	%	1	08/29/2013 12:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.9	%	1	08/29/2013 12:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.1		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0338	mg/L	1	09/06/2013 16:45	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0529	mg/L	1	09/03/2013 15:30	91540
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/03/2013 15:30	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:30	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:30	91540
Chromium	NELAP	0.004	0.01	J	0.0071	mg/L	1	09/03/2013 15:30	91540
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/03/2013 15:30	91540
Iron	NELAP	0.007	0.02	X	8.28	mg/L	1	09/03/2013 15:30	91540
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/03/2013 15:30	91540
Manganese	NELAP	0.0016	0.005		0.0704	mg/L	1	09/03/2013 15:30	91540
Nickel	NELAP	0.0033	0.01	J	0.0069	mg/L	1	09/03/2013 15:30	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:30	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:30	91540
Zinc	NELAP	0.0021	0.01		0.0242	mg/L	1	09/03/2013 15:30	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 10:15	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:25	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:16	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		7370	mg/Kg-dry	1	09/03/2013 19:07	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 22:32	91500
Arsenic	NELAP	1.2	2.4		4.7	mg/Kg-dry	1	08/30/2013 17:08	91484
Barium	NELAP	0.24	0.48		64.6	mg/Kg-dry	1	08/30/2013 17:08	91484
Beryllium	NELAP	0.05	0.1		0.34	mg/Kg-dry	1	08/30/2013 17:08	91484
Boron	NELAP	0.96	1.92		10.1	mg/Kg-dry	1	08/30/2013 17:08	91484
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 17:08	91484
Calcium	NELAP	2.4	4.81		70400	mg/Kg-dry	1	08/30/2013 17:08	91484
Chromium	NELAP	0.48	0.96		10.4	mg/Kg-dry	1	08/30/2013 17:08	91484
Cobalt	NELAP	0.48	0.96		4.72	mg/Kg-dry	1	08/30/2013 17:08	91484
Copper	NELAP	0.48	0.96		11.1	mg/Kg-dry	1	08/30/2013 17:08	91484
Iron	NELAP	0.96	1.92		12900	mg/Kg-dry	1	08/30/2013 17:08	91484
Lead	NELAP	1.92	3.85		5.27	mg/Kg-dry	1	08/30/2013 17:08	91484
Magnesium	NELAP	0.48	0.96	B	31500	mg/Kg-dry	1	08/30/2013 17:08	91484
Manganese	NELAP	0.24	0.48		386	mg/Kg-dry	1	08/30/2013 17:08	91484
Nickel	NELAP	0.48	0.96		10.9	mg/Kg-dry	1	08/30/2013 17:08	91484
Potassium	NELAP	4.81	9.62		1780	mg/Kg-dry	1	08/30/2013 17:08	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 17:08	91484
Sodium	NELAP	2.4	4.81		429	mg/Kg-dry	1	08/30/2013 17:08	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-015

Client Sample ID: 1467V-1-B08-2

Matrix: SOLID

Collection Date: 08/27/2013 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 17:08	91484
Vanadium	NELAP	0.48	0.96		19.9	mg/Kg-dry	1	08/30/2013 17:08	91484
Zinc	NELAP	0.48	0.96		26	mg/Kg-dry	1	09/03/2013 19:07	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545		< 0.545	mg/Kg-dry	1	08/30/2013 11:51	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.007	mg/Kg-dry	1	08/30/2013 10:51	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.149	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
1,2-Dichlorobenzene	NELAP	0.178	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
1,3-Dichlorobenzene	NELAP	0.188	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
1,4-Dichlorobenzene	NELAP	0.178	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4,5-Trichlorophenol	NELAP	0.107	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4,6-Trichlorophenol	NELAP	0.141	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4-Dichlorophenol	NELAP	0.136	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4-Dimethylphenol	NELAP	0.142	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4-Dinitrophenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,4-Dinitrotoluene	NELAP	0.117	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2,6-Dinitrotoluene	NELAP	0.121	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2-Chloronaphthalene	NELAP	0.135	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2-Chlorophenol	NELAP	0.142	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2-Methylnaphthalene	NELAP	0.134	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
2-Nitrophenol	NELAP	0.126	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
3,3'-Dichlorobenzidine	NELAP	0.224	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Bromophenyl phenyl ether	NELAP	0.103	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Chloro-3-methylphenol	NELAP	0.123	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Chloroaniline	NELAP	0.136	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Chlorophenyl phenyl ether	NELAP	0.111	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Nitroaniline	NELAP	0.102	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
4-Nitrophenol	NELAP	0.11	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Bis(2-chloroethoxy)methane	NELAP	0.131	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Bis(2-chloroethyl)ether	NELAP	0.159	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Bis(2-chloroisopropyl)ether	NELAP	0.128	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Butyl benzyl phthalate	NELAP	0.113	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-015

Client Sample ID: 1467V-1-B08-2

Matrix: SOLID

Collection Date: 08/27/2013 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.137	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Dibenzofuran	NELAP	0.141	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Diethyl phthalate	NELAP	0.108	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Dimethyl phthalate	NELAP	0.102	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Di-n-butyl phthalate	NELAP	0.116	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Di-n-octyl phthalate	NELAP	0.117	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Hexachlorobenzene	NELAP	0.11	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Hexachlorobutadiene	NELAP	0.174	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Hexachlorocyclopentadiene	NELAP	0.114	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Hexachloroethane	NELAP	0.187	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Isophorone	NELAP	0.132	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
m,p-Cresol	NELAP	0.141	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Nitrobenzene	NELAP	0.14	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
N-Nitroso-di-n-propylamine	NELAP	0.123	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
N-Nitrosodiphenylamine	NELAP	0.103	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
o-Cresol	NELAP	0.132	0.561		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Pentachlorophenol	NELAP	0.74	2.24		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Phenol	NELAP	0.13	0.393		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/31/2013 6:15	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		65.2	%REC	1	08/31/2013 6:15	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		62.6	%REC	1	08/31/2013 6:15	91473
Surr: 2-Fluorophenol		0	30.5-99		61.6	%REC	1	08/31/2013 6:15	91473
Surr: Nitrobenzene-d5		0	34.1-101		66	%REC	1	08/31/2013 6:15	91473
Surr: Phenol-d5		0	34.9-110		62.9	%REC	1	08/31/2013 6:15	91473
Surr: p-Terphenyl-d14		0	41.7-124		67	%REC	1	08/31/2013 6:15	91473
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
2-Butanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
2-Hexanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
4-Methyl-2-pentanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Acetone	NELAP	0.0078	0.039	J	0.02	mg/Kg-dry	1	08/31/2013 2:04	91559
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	08/31/2013 2:04	91559
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-015

Client Sample ID: 1467V-1-B08-2

Matrix: SOLID

Collection Date: 08/27/2013 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/31/2013 2:04	91559
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	08/31/2013 2:04	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Methylene chloride	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/31/2013 2:04	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Toluene	NELAP	0.0008	0.004	J	0.004	mg/Kg-dry	1	08/31/2013 2:04	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Vinyl acetate	NELAP	0.0156	0.039		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/31/2013 2:04	91559
Xylenes, Total	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	08/31/2013 2:04	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		116.4	%REC	1	08/31/2013 2:04	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		102	%REC	1	08/31/2013 2:04	91559
Surr: Dibromofluoromethane		0	77.7-120		102.2	%REC	1	08/31/2013 2:04	91559
Surr: Toluene-d8		0	86-116		98.7	%REC	1	08/31/2013 2:04	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-018

Client Sample ID: 1467V-1-B01

Matrix: SOLID

Collection Date: 08/27/2013 16:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.4	%	1	08/29/2013 12:46	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.6	%	1	08/29/2013 12:46	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.62		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0296	mg/L	1	09/06/2013 16:49	91654
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 16:49	91654
Manganese	NELAP	0.0016	0.005		1.07	mg/L	1	09/06/2013 16:49	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0048	0.01		0.226	mg/L	2	09/04/2013 11:06	91540
Beryllium	NELAP	0.0003	0.001		0.0013	mg/L	1	09/03/2013 15:41	91540
Boron	NELAP	1	2		< 2	mg/L	1	09/03/2013 15:41	91540
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/03/2013 15:41	91540
Chromium	NELAP	0.008	0.02		0.043	mg/L	2	09/04/2013 11:06	91540
Cobalt	NELAP	0.0022	0.01		0.0102	mg/L	1	09/03/2013 15:41	91540
Iron	NELAP	0.014	0.04	X	43.6	mg/L	2	09/04/2013 11:06	91540
Lead	NELAP	0.012	0.014	X	0.0212	mg/L	2	09/04/2013 11:06	91540
Manganese	NELAP	0.0032	0.01	X	0.406	mg/L	2	09/04/2013 11:06	91540
Nickel	NELAP	0.0066	0.02		0.0362	mg/L	2	09/04/2013 11:06	91540
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/03/2013 15:41	91540
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/03/2013 15:41	91540
Zinc	NELAP	0.0042	0.02		0.112	mg/L	2	09/04/2013 11:06	91540
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/03/2013 10:33	91543
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:49	91543
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/03/2013 15:23	91549
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		12200	mg/Kg-dry	1	09/03/2013 19:18	91484
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	08/30/2013 22:43	91500
Arsenic	NELAP	1.23	2.45		6.25	mg/Kg-dry	1	08/30/2013 17:26	91484
Barium	NELAP	0.25	0.49		73.6	mg/Kg-dry	1	08/30/2013 17:26	91484
Beryllium	NELAP	0.05	0.1		0.47	mg/Kg-dry	1	08/30/2013 17:26	91484
Boron	NELAP	0.98	1.96		8.43	mg/Kg-dry	1	08/30/2013 17:26	91484
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 17:26	91484
Calcium	NELAP	2.45	4.9		56800	mg/Kg-dry	1	08/30/2013 17:26	91484
Chromium	NELAP	0.49	0.98	X	14.8	mg/Kg-dry	1	08/30/2013 17:26	91484
Cobalt	NELAP	0.49	0.98		4.63	mg/Kg-dry	1	08/30/2013 17:26	91484
Copper	NELAP	0.49	0.98		14.6	mg/Kg-dry	1	08/30/2013 17:26	91484
Iron	NELAP	0.98	1.96	X	15300	mg/Kg-dry	1	08/30/2013 17:26	91484
Lead	NELAP	1.96	3.92		14.4	mg/Kg-dry	1	08/30/2013 17:26	91484
Magnesium	NELAP	0.49	0.98	B	30500	mg/Kg-dry	1	08/30/2013 17:26	91484
Manganese	NELAP	0.25	0.49		313	mg/Kg-dry	1	08/30/2013 17:26	91484
Nickel	NELAP	0.49	0.98		12.6	mg/Kg-dry	1	08/30/2013 17:26	91484
Potassium	NELAP	4.9	9.8		1390	mg/Kg-dry	1	08/30/2013 17:26	91484

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-018

Client Sample ID: 1467V-1-B01

Matrix: SOLID

Collection Date: 08/27/2013 16:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 17:26	91484
Sodium	NELAP	2.45	4.9		1880	mg/Kg-dry	1	08/30/2013 17:26	91484
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 17:26	91484
Vanadium	NELAP	0.49	0.98		26.2	mg/Kg-dry	1	08/30/2013 17:26	91484
Zinc	NELAP	0.49	0.98		33.6	mg/Kg-dry	1	09/03/2013 19:18	91484
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 12:01	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.031	mg/Kg-dry	1	08/30/2013 10:57	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.159	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
1,2-Dichlorobenzene	NELAP	0.191	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
1,3-Dichlorobenzene	NELAP	0.201	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
1,4-Dichlorobenzene	NELAP	0.191	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4,5-Trichlorophenol	NELAP	0.114	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4,6-Trichlorophenol	NELAP	0.151	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4-Dichlorophenol	NELAP	0.145	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4-Dimethylphenol	NELAP	0.152	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4-Dinitrophenol	NELAP	0.128	1.2		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,4-Dinitrotoluene	NELAP	0.125	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2,6-Dinitrotoluene	NELAP	0.129	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2-Chloronaphthalene	NELAP	0.144	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2-Chlorophenol	NELAP	0.152	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2-Methylnaphthalene	NELAP	0.143	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2-Nitroaniline	NELAP	0.109	1.2		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
2-Nitrophenol	NELAP	0.134	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
3,3'-Dichlorobenzidine	NELAP	0.24	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
3-Nitroaniline	NELAP	0.098	1.2		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4,6-Dinitro-2-methylphenol	NELAP	0.129	1.2		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Bromophenyl phenyl ether	NELAP	0.11	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Chloro-3-methylphenol	NELAP	0.132	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Chloroaniline	NELAP	0.145	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Chlorophenyl phenyl ether	NELAP	0.119	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Nitroaniline	NELAP	0.109	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
4-Nitrophenol	NELAP	0.117	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Benzo(g,h,i)perylene	NELAP	0.02	0.041	S	ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Bis(2-chloroethoxy)methane	NELAP	0.14	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Bis(2-chloroethyl)ether	NELAP	0.17	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Bis(2-chloroisopropyl)ether	NELAP	0.137	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-018

Client Sample ID: 1467V-1-B01

Matrix: SOLID

Collection Date: 08/27/2013 16:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.14	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Butyl benzyl phthalate	NELAP	0.121	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Carbazole		0.146	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Dibenzo(a,h)anthracene	NELAP	0.02	0.041	S	ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Dibenzofuran	NELAP	0.151	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Diethyl phthalate	NELAP	0.115	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Dimethyl phthalate	NELAP	0.109	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Di-n-butyl phthalate	NELAP	0.123	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Di-n-octyl phthalate	NELAP	0.125	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Hexachlorobenzene	NELAP	0.117	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Hexachlorobutadiene	NELAP	0.186	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Hexachlorocyclopentadiene	NELAP	0.122	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Hexachloroethane	NELAP	0.2	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041	S	ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Isophorone	NELAP	0.141	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
m,p-Cresol	NELAP	0.151	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Nitrobenzene	NELAP	0.15	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
N-Nitroso-di-n-propylamine	NELAP	0.132	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
N-Nitrosodiphenylamine	NELAP	0.11	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
o-Cresol	NELAP	0.141	0.599		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Pentachlorophenol	NELAP	0.791	2.4		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Phenol	NELAP	0.139	0.42		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/31/2013 7:52	91473
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.5	%REC	1	08/31/2013 7:52	91473
Surr: 2-Fluorobiphenyl		0	34.1-116		58.3	%REC	1	08/31/2013 7:52	91473
Surr: 2-Fluorophenol		0	30.5-99		58.1	%REC	1	08/31/2013 7:52	91473
Surr: Nitrobenzene-d5		0	34.1-101		70.2	%REC	1	08/31/2013 7:52	91473
Surr: Phenol-d5		0	34.9-110		58.7	%REC	1	08/31/2013 7:52	91473
Surr: p-Terphenyl-d14		0	41.7-124		62.7	%REC	1	08/31/2013 7:52	91473

MS and MSD did not recover within control limits due to matrix interference.

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
2-Butanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
2-Hexanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
4-Methyl-2-pentanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/04/2013 13:04	91653



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081486

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081486-018

Client Sample ID: 1467V-1-B01

Matrix: SOLID

Collection Date: 08/27/2013 16:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.01	0.05	J	0.027	mg/Kg-dry	1	09/04/2013 13:04	91653
Benzene	NELAP	0.0005	0.001		0.002	mg/Kg-dry	1	09/04/2013 13:04	91653
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Carbon disulfide	NELAP	0.003	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
m,p-Xylenes	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/04/2013 13:04	91653
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Methylene chloride	NELAP	0.001	0.005	B	ND	mg/Kg-dry	1	09/04/2013 13:04	91653
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Toluene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/04/2013 13:04	91653
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Vinyl acetate	NELAP	0.02	0.05		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 13:04	91653
Xylenes, Total	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/04/2013 13:04	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.5	%REC	1	09/04/2013 13:04	91653
Surr: 4-Bromofluorobenzene		0	82.1-116		106	%REC	1	09/04/2013 13:04	91653
Surr: Dibromofluoromethane		0	77.7-120		103.2	%REC	1	09/04/2013 13:04	91653
Surr: Toluene-d8		0	86-116		102.3	%REC	1	09/04/2013 13:04	91653

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Grove Kane Co</u> Project No.: <u>IDOT2013-018</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: <u>4</u> of <u>4</u> Lab Job No.: _____ Sample Temp.: <u>13081486</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other
Special Instructions:			
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.			
ANALYSES			
VOCs	SVOCs	BETX & MTBE	PNAs
Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals
pH	% Solids	Waste Characterization	Comments
Lab ID	Sample ID	Sample Date	Sample Time
Matrix			
13081486	1467V-1-B01	8/26/13	10:35AM
	1467V-1-B02-1	8/26/13	10:40AM
	1467V-1-B02-2		
	1467V-1-B03-1		
	1467V-1-B03-2		
	1467V-1-B04-1		
	1467V-1-B04-2		
	1467V-1-B05-1		
	1467V-1-B05-2		
	1467V-1-B06-1		
	1467V-1-B06-2		
	1467V-1-B07-1		
Relinquished by: _____		Date/Time	8/26/13 4:20AM
Relinquished by: _____		Date/Time	8/28/13 6:30AM
Relinquished by: _____		Date/Time	8/28/13 2:30PM

Received by: Stephane Hennessy
 Received by: Stephane Hennessy
 Received by: Stephane Hennessy
 8/29/13 8:40
 8/29/13 8:40
 8/29/13 8:40
 Andrews Engineering, Inc.

CHAIN OF CUSTODY

pg. 2 of 4 Work Order # 13081486

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: AWOREW'S
 Address: _____
 City / State / Zip: _____
 Contact: Colleen Gray Phone: _____
 E-Mail: _____ Fax: _____

Samples on: Ice Blue Ice No Ice _____ °C
 Preserved in: Lab Field FOR LAB USE ONLY
 Lab Notes: _____
 Comments: _____

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number	Sample Collector's Name	Billing Instructions	# and Type of Containers							INDICATE ANALYSIS REQUESTED																	
			Results Requested		Sample Identification	Date/Time Sampled	UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	Voc's	Svoc's	Total Metals	SP/TEL	PH	% Solids		
			Standard	1-2 Day (100% Surcharge)			Other	3 Day (50% Surcharge)	Other																		
13081486-203		1467V-1-803-1	8-27-13 3:58pm												X			X	X			X	X				
204		1467V-1-803-2	8-27-13 3:55pm												X			X	X			X	X				
205		1467V-1-804-1	8-27-13 3:50pm												X			X	X			X	X				
206		1467V-1-804-2	8-27-13 3:05pm												X			X	X			X	X				
207		1467V-1-805-1	8-27-13 2:40pm												X			X	X			X	X				
208		1467V-1-805-2	8-27-13 2:45pm												X			X	X			X	X				
209		1467V-1-806-1	8-27-13 2:10pm												X			X	X			X	X				
210		1467V-1-806-2	8-27-13 2:15pm												X			X	X			X	X				
211		1467V-1-807-1	8-27-13 1:10pm												X			X	X			X	X				
Relinquished By		Date / Time		Received By		Date / Time																					
<u>Zoe Barron (AET)</u>		8-27-13 4:40pm		<u>Bob Clay</u>		8-27-13 4:45pm																					
<u>John Kelly</u>		8-28-13 6:30pm		<u>Stephanie Hayes</u>		8-28-13 8:50																					
<u>John Kelly</u>		8-28-13 2:30		<u>Stephanie Hayes</u>		8-29-13 8:40																					

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW - LAB PINK - SAMPLER'S COPY



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: TekLab, Inc.
 Address: 5445 Horseshoe Lake Road
 Collinsville, IL 62234
 Phone: 877-344-1003
 Contact: Shelly Hennessy
 email: shennessy@teklabinc.com

Project Name: Pineyree Thruway Lane Co
 Project No.: IDOT 2013-018
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: _____

COC No.: 3 of 4
 Lab Job No.: 13081486
 Sample Temp: _____

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13081486																
-012	1467V-1-B07-1	8-27-13	1:15pm	S	X						X	X	X	X		0-5
-03	1467V-1-B07-2	8-27-13	1:20pm													5-10
-04	1467V-1-B08-1	8-27-13	12:40pm													4-5
-05	1467V-1-B08-2	8-27-13	12:45pm													5-10
	1467V-1-B09-1															
	1467V-1-B09-2															
	1467V-1-B10-1															
	1467V-1-B10-2															
	1467V-1-B11-1															
	1467V-1-B11-2															
	1467V-1-B12-1															
	1467V-1-B12-2			S	X						X	X	X			

Relinquished by: Stephanie Date/Time: 8-27-13 4:46pm Received by: Stephanie Date/Time: 8-27-13 4:45pm

Relinquished by: Stephanie Date/Time: 8-28-13 6:30pm Received by: Stephanie Date/Time: 8/28/13 6:30pm

Relinquished by: Stephanie Date/Time: 8/29/13 8:40 Received by: Stephanie Date/Time: 8/28/13 21:30

Andrews Engineering, Inc. J:\DOT2013Forms\COC\AEI - IDOT2013 COC (TekLab)

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ANDREW'S

Address: _____

City / State / Zip: _____

Contact: COLLEEN GREY Phone: _____ Fax: _____

E-Mail: _____

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Samples on: Ice Blue Ice No Ice _____ °C

Preserved in: Lab Field **FOR LAB USE ONLY**

Lab Notes: * SAMPLE ID, DATE & TIME PER LAB TO BE LABELED SEP 12/13

Comments: _____

Project Name / Number	Sample Collector's Name	Billing Instructions	# and Type of Containers						INDICATE ANALYSIS REQUESTED										
			UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	VOC'S	SPEC/TEP	PH	% SOLIDS
13081486-216	1467V-1-1324-1	8-27-13 1:35PM									X				X	X	X	X	
217	1467V-1-1324-2	8-27-13 1:40PM									X				X	X	X	X	
218	146FV-1-BO1	8/27/13 4:00PM																	

Relinquished By	Date / Time	Received By	Date / Time
<i>[Signature]</i>	8-27-13 7:40 AM	<i>[Signature]</i>	8-27-13 4:45 PM
<i>[Signature]</i>	8-28-13 6:30 PM	<i>[Signature]</i>	8/28/13 6:30 PM
<i>[Signature]</i>	8/28/13 2:190	<i>[Signature]</i>	8/28/13 2:40
<i>[Signature]</i>	8/29/13 8:40 AM	<i>[Signature]</i>	8/29/13 8:40 AM

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW - LAB PINK - SAMPLER'S COPY



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
43W368 - 43W404 and 43W452 US 20

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08870 Longitude: -88.46004
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08870 Longitude: -88.46004

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-2-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-2. SEE FIGURE 2 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081487

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217.785.4246
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-2
Vacant Land/Barn

Sample ID	1467V-2-B01	1467V-2-B02	1467V-2-B03-1	1467V-2-B03-1 DUP	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-5	0-5						
Sample Date	8/28/2013	8/28/2013	8/28/2013	8/28/2013						
PID	0	0	0	0						
Sample pH	8.36	8.62	8.7	8.73						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

Sample ID	1467V-2-B03-2	1467V-2-B04-1	1467V-2-B04-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	5-8	0-5	5-8						
Sample Date	8/28/2013	8/28/2013	8/28/2013						
PID	0	0	0						
Sample pH	8.68	8.56	8.57						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081487

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-001

Client Sample ID: 1467V-2-B01

Matrix: SOLID

Collection Date: 08/28/2013 7:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13.5	%	1	08/29/2013 13:38	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86.5	%	1	08/29/2013 13:38	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.36		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0438	mg/L	1	09/04/2013 1:03	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:03	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:03	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:03	91553
Chromium	NELAP	0.004	0.01	J	0.0045	mg/L	1	09/04/2013 1:03	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:03	91553
Iron	NELAP	0.007	0.02		4.28	mg/L	1	09/04/2013 1:03	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:03	91553
Manganese	NELAP	0.0016	0.005		0.0273	mg/L	1	09/04/2013 1:03	91553
Nickel	NELAP	0.0033	0.01	J	0.0059	mg/L	1	09/04/2013 1:03	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:03	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:03	91553
Zinc	NELAP	0.0021	0.01		0.0232	mg/L	1	09/04/2013 1:03	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:11	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 12:59	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 13:47	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		10500	mg/Kg-dry	1	09/03/2013 19:21	91484
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	08/30/2013 22:47	91500
Arsenic	NELAP	1.18	2.36		5.33	mg/Kg-dry	1	08/30/2013 17:32	91484
Barium	NELAP	0.24	0.47		48.8	mg/Kg-dry	1	08/30/2013 17:32	91484
Beryllium	NELAP	0.05	0.09		0.5	mg/Kg-dry	1	08/30/2013 17:32	91484
Boron	NELAP	0.94	1.89		12.3	mg/Kg-dry	1	08/30/2013 17:32	91484
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 17:32	91484
Calcium	NELAP	2.36	4.72		66300	mg/Kg-dry	1	08/30/2013 17:32	91484
Chromium	NELAP	0.47	0.94	X	15.2	mg/Kg-dry	1	08/30/2013 17:32	91484
Cobalt	NELAP	0.47	0.94		6.19	mg/Kg-dry	1	08/30/2013 17:32	91484
Copper	NELAP	0.47	0.94		14.9	mg/Kg-dry	1	08/30/2013 17:32	91484
Iron	NELAP	0.94	1.89	X	15900	mg/Kg-dry	1	08/30/2013 17:32	91484
Lead	NELAP	1.89	3.77		6.82	mg/Kg-dry	1	08/30/2013 17:32	91484
Magnesium	NELAP	0.47	0.94	B	31600	mg/Kg-dry	1	08/30/2013 17:32	91484
Manganese	NELAP	0.24	0.47		302	mg/Kg-dry	1	08/30/2013 17:32	91484
Nickel	NELAP	0.47	0.94		15.6	mg/Kg-dry	1	08/30/2013 17:32	91484
Potassium	NELAP	4.72	9.43		2450	mg/Kg-dry	1	08/30/2013 17:32	91484
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 17:32	91484
Sodium	NELAP	2.36	4.72		423	mg/Kg-dry	1	08/30/2013 17:32	91484
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 17:32	91484
Vanadium	NELAP	0.47	0.94		22.3	mg/Kg-dry	1	08/30/2013 17:32	91484
Zinc	NELAP	0.47	0.94		38	mg/Kg-dry	1	09/03/2013 19:21	91484

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-001

Client Sample ID: 1467V-2-B01

Matrix: SOLID

Collection Date: 08/28/2013 7:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 12:04	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.016	mg/Kg-dry	1	08/30/2013 13:44	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.155	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
1,2-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
1,3-Dichlorobenzene	NELAP	0.195	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
1,4-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4,5-Trichlorophenol	NELAP	0.11	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4,6-Trichlorophenol	NELAP	0.146	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4-Dichlorophenol	NELAP	0.141	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4-Dimethylphenol	NELAP	0.148	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,4-Dinitrotoluene	NELAP	0.121	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2,6-Dinitrotoluene	NELAP	0.125	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2-Chloronaphthalene	NELAP	0.139	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2-Chlorophenol	NELAP	0.148	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2-Methylnaphthalene	NELAP	0.138	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2-Nitroaniline	NELAP	0.106	1.16		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
2-Nitrophenol	NELAP	0.13	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
3,3'-Dichlorobenzidine	NELAP	0.232	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Bromophenyl phenyl ether	NELAP	0.107	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Chloro-3-methylphenol	NELAP	0.128	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Chloroaniline	NELAP	0.141	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Chlorophenyl phenyl ether	NELAP	0.115	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Nitroaniline	NELAP	0.106	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
4-Nitrophenol	NELAP	0.114	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Acenaphthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Acenaphthylene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Benzo(a)anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Benzo(a)pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Benzo(b)fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Benzo(k)fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Bis(2-chloroethoxy)methane	NELAP	0.136	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Bis(2-chloroethyl)ether	NELAP	0.165	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Butyl benzyl phthalate	NELAP	0.117	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Carbazole		0.142	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Chrysene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-001

Client Sample ID: 1467V-2-B01

Matrix: SOLID

Collection Date: 08/28/2013 7:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.146	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Diethyl phthalate	NELAP	0.112	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Dimethyl phthalate	NELAP	0.106	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Di-n-butyl phthalate	NELAP	0.12	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Di-n-octyl phthalate	NELAP	0.121	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Fluorene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Hexachlorobenzene	NELAP	0.114	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Hexachlorobutadiene	NELAP	0.18	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Hexachlorocyclopentadiene	NELAP	0.119	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Hexachloroethane	NELAP	0.194	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Isophorone	NELAP	0.137	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
m,p-Cresol	NELAP	0.146	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Naphthalene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Nitrobenzene	NELAP	0.145	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
N-Nitroso-di-n-propylamine	NELAP	0.128	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
N-Nitrosodiphenylamine	NELAP	0.107	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
o-Cresol	NELAP	0.137	0.581		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Pentachlorophenol	NELAP	0.767	2.32		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Phenanthrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Phenol	NELAP	0.135	0.407		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/30/2013 17:29	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.2	%REC	1	08/30/2013 17:29	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		56.2	%REC	1	08/30/2013 17:29	91492
Surr: 2-Fluorophenol		0	30.5-99		52.5	%REC	1	08/30/2013 17:29	91492
Surr: Nitrobenzene-d5		0	34.1-101		67.8	%REC	1	08/30/2013 17:29	91492
Surr: Phenol-d5		0	34.9-110		57.3	%REC	1	08/30/2013 17:29	91492
Surr: p-Terphenyl-d14		0	41.7-124		68.4	%REC	1	08/30/2013 17:29	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
2-Butanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
2-Hexanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
4-Methyl-2-pentanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Acetone	NELAP	0.0077	0.038	J	0.029	mg/Kg-dry	1	09/03/2013 22:57	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/03/2013 22:57	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-001

Client Sample ID: 1467V-2-B01

Matrix: SOLID

Collection Date: 08/28/2013 7:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 22:57	91591
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 22:57	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 22:57	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Toluene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 22:57	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Vinyl acetate	NELAP	0.0154	0.038		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 22:57	91591
Xylenes, Total	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/03/2013 22:57	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.5	%REC	1	09/03/2013 22:57	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		109.8	%REC	1	09/03/2013 22:57	91591
Surr: Dibromofluoromethane		0	77.7-120		99.7	%REC	1	09/03/2013 22:57	91591
Surr: Toluene-d8		0	86-116		100.8	%REC	1	09/03/2013 22:57	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-002

Client Sample ID: 1467V-2-B02

Matrix: SOLID

Collection Date: 08/28/2013 8:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.9	%	1	08/29/2013 13:38	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.1	%	1	08/29/2013 13:38	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.62		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0182	mg/L	1	09/04/2013 1:14	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:14	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:14	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:14	91553
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/04/2013 1:14	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:14	91553
Iron	NELAP	0.007	0.02		2.45	mg/L	1	09/04/2013 1:14	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:14	91553
Manganese	NELAP	0.0016	0.005		0.0185	mg/L	1	09/04/2013 1:14	91553
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 1:14	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:14	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:14	91553
Zinc	NELAP	0.0021	0.01		0.0103	mg/L	1	09/04/2013 1:14	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:15	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 13:03	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 13:49	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		3440	mg/Kg-dry	1	09/03/2013 19:25	91484
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	08/30/2013 22:50	91500
Arsenic	NELAP	1.2	2.4		3.56	mg/Kg-dry	1	08/30/2013 17:38	91484
Barium	NELAP	0.24	0.48		15.9	mg/Kg-dry	1	08/30/2013 17:38	91484
Beryllium	NELAP	0.05	0.1		0.2	mg/Kg-dry	1	08/30/2013 17:38	91484
Boron	NELAP	0.96	1.92		6.23	mg/Kg-dry	1	08/30/2013 17:38	91484
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 17:38	91484
Calcium	NELAP	2.4	4.81		74000	mg/Kg-dry	1	08/30/2013 17:38	91484
Chromium	NELAP	0.48	0.96		6.01	mg/Kg-dry	1	08/30/2013 17:38	91484
Cobalt	NELAP	0.48	0.96		2.38	mg/Kg-dry	1	08/30/2013 17:38	91484
Copper	NELAP	0.48	0.96		8.6	mg/Kg-dry	1	08/30/2013 17:38	91484
Iron	NELAP	0.96	1.92		7630	mg/Kg-dry	1	08/30/2013 17:38	91484
Lead	NELAP	1.92	3.85		4.66	mg/Kg-dry	1	08/30/2013 17:38	91484
Magnesium	NELAP	0.48	0.96	B	35000	mg/Kg-dry	1	08/30/2013 17:38	91484
Manganese	NELAP	0.24	0.48		218	mg/Kg-dry	1	08/30/2013 17:38	91484
Nickel	NELAP	0.48	0.96		5.95	mg/Kg-dry	1	08/30/2013 17:38	91484
Potassium	NELAP	4.81	9.62		865	mg/Kg-dry	1	08/30/2013 17:38	91484
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 17:38	91484
Sodium	NELAP	2.4	4.81		133	mg/Kg-dry	1	08/30/2013 17:38	91484
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 17:38	91484
Vanadium	NELAP	0.48	0.96		11.6	mg/Kg-dry	1	08/30/2013 17:38	91484
Zinc	NELAP	0.48	0.96		18.5	mg/Kg-dry	1	09/03/2013 19:25	91484

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-002

Client Sample ID: 1467V-2-B02

Matrix: SOLID

Collection Date: 08/28/2013 8:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	08/30/2013 12:08	91495
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.006	mg/Kg-dry	1	08/30/2013 13:46	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.147	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
1,2-Dichlorobenzene	NELAP	0.175	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
1,3-Dichlorobenzene	NELAP	0.185	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
1,4-Dichlorobenzene	NELAP	0.175	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4,5-Trichlorophenol	NELAP	0.105	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4,6-Trichlorophenol	NELAP	0.139	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4-Dichlorophenol	NELAP	0.134	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4-Dimethylphenol	NELAP	0.14	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,4-Dinitrotoluene	NELAP	0.115	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2,6-Dinitrotoluene	NELAP	0.119	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2-Chloronaphthalene	NELAP	0.132	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2-Chlorophenol	NELAP	0.14	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2-Methylnaphthalene	NELAP	0.131	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
2-Nitrophenol	NELAP	0.124	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
3,3'-Dichlorobenzidine	NELAP	0.221	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Bromophenyl phenyl ether	NELAP	0.102	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Chloro-3-methylphenol	NELAP	0.121	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Chloroaniline	NELAP	0.134	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Chlorophenyl phenyl ether	NELAP	0.109	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Nitroaniline	NELAP	0.1	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
4-Nitrophenol	NELAP	0.108	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Acenaphthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Acenaphthylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Benzo(a)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Benzo(a)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Benzo(b)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Benzo(g,h,i)perylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Benzo(k)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Bis(2-chloroethoxy)methane	NELAP	0.129	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Bis(2-chloroethyl)ether	NELAP	0.157	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Bis(2-chloroisopropyl)ether	NELAP	0.126	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Butyl benzyl phthalate	NELAP	0.111	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Carbazole		0.135	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Chrysene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Dibenzo(a,h)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-002

Client Sample ID: 1467V-2-B02

Matrix: SOLID

Collection Date: 08/28/2013 8:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.139	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Diethyl phthalate	NELAP	0.106	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Dimethyl phthalate	NELAP	0.1	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Di-n-butyl phthalate	NELAP	0.114	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Di-n-octyl phthalate	NELAP	0.115	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Fluorene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Hexachlorobenzene	NELAP	0.108	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Hexachlorobutadiene	NELAP	0.171	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Hexachlorocyclopentadiene	NELAP	0.113	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Hexachloroethane	NELAP	0.184	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Isophorone	NELAP	0.13	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
m,p-Cresol	NELAP	0.139	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Naphthalene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Nitrobenzene	NELAP	0.138	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
N-Nitroso-di-n-propylamine	NELAP	0.121	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
N-Nitrosodiphenylamine	NELAP	0.102	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
o-Cresol	NELAP	0.13	0.552		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Pentachlorophenol	NELAP	0.728	2.21		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Phenanthrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Phenol	NELAP	0.128	0.386		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	08/30/2013 18:02	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		71.9	%REC	1	08/30/2013 18:02	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		64	%REC	1	08/30/2013 18:02	91492
Surr: 2-Fluorophenol		0	30.5-99		58.3	%REC	1	08/30/2013 18:02	91492
Surr: Nitrobenzene-d5		0	34.1-101		70.9	%REC	1	08/30/2013 18:02	91492
Surr: Phenol-d5		0	34.9-110		61.2	%REC	1	08/30/2013 18:02	91492
Surr: p-Terphenyl-d14		0	41.7-124		70.9	%REC	1	08/30/2013 18:02	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
2-Butanone	NELAP	0.0087	0.044		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
2-Hexanone	NELAP	0.0087	0.044		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
4-Methyl-2-pentanone	NELAP	0.0087	0.044		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Acetone	NELAP	0.0087	0.044		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/03/2013 23:23	91591
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-002

Client Sample ID: 1467V-2-B02

Matrix: SOLID

Collection Date: 08/28/2013 8:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Ethylbenzene	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 23:23	91591
m,p-Xylenes	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 23:23	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
o-Xylene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 23:23	91591
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Toluene	NELAP	0.0009	0.004		0.005	mg/Kg-dry	1	09/03/2013 23:23	91591
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Vinyl acetate	NELAP	0.0174	0.044		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 23:23	91591
Xylenes, Total	NELAP	0.0009	0.004	J	0.004	mg/Kg-dry	1	09/03/2013 23:23	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.6	%REC	1	09/03/2013 23:23	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		106.2	%REC	1	09/03/2013 23:23	91591
Surr: Dibromofluoromethane		0	77.7-120		101.1	%REC	1	09/03/2013 23:23	91591
Surr: Toluene-d8		0	86-116		102.8	%REC	1	09/03/2013 23:23	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-003

Client Sample ID: 1467V-2-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10	%	1	08/29/2013 13:38	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90	%	1	08/29/2013 13:38	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.7		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0588	mg/L	1	09/06/2013 16:53	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0513	mg/L	1	09/04/2013 1:18	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:18	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:18	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:18	91553
Chromium	NELAP	0.004	0.01	J	0.0069	mg/L	1	09/04/2013 1:18	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:18	91553
Iron	NELAP	0.007	0.02	X	6.71	mg/L	1	09/04/2013 1:18	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:18	91553
Manganese	NELAP	0.0016	0.005		0.0486	mg/L	1	09/04/2013 1:18	91553
Nickel	NELAP	0.0033	0.01	J	0.0079	mg/L	1	09/04/2013 1:18	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:18	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:18	91553
Zinc	NELAP	0.0021	0.01		0.0404	mg/L	1	09/04/2013 1:18	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:26	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 14:52	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 13:51	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		5510	mg/Kg-dry	1	08/30/2013 9:57	91487
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 19:47	91523
Arsenic	NELAP	1.23	2.45		4.61	mg/Kg-dry	1	08/30/2013 9:57	91487
Barium	NELAP	0.25	0.49		28.8	mg/Kg-dry	1	08/30/2013 9:57	91487
Beryllium	NELAP	0.05	0.1		0.32	mg/Kg-dry	1	08/30/2013 9:57	91487
Boron	NELAP	0.98	1.96		8.63	mg/Kg-dry	1	08/30/2013 9:57	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 9:57	91487
Calcium	NELAP	2.45	4.9		68300	mg/Kg-dry	1	08/30/2013 9:57	91487
Chromium	NELAP	0.49	0.98		9.96	mg/Kg-dry	1	08/30/2013 9:57	91487
Cobalt	NELAP	0.49	0.98		4.34	mg/Kg-dry	1	08/30/2013 9:57	91487
Copper	NELAP	0.49	0.98		13.6	mg/Kg-dry	1	08/30/2013 9:57	91487
Iron	NELAP	0.98	1.96		11800	mg/Kg-dry	1	08/30/2013 9:57	91487
Lead	NELAP	1.96	3.92		6.7	mg/Kg-dry	1	08/30/2013 9:57	91487
Magnesium	NELAP	0.49	0.98		31200	mg/Kg-dry	1	08/30/2013 9:57	91487
Manganese	NELAP	0.25	0.49		256	mg/Kg-dry	1	08/30/2013 9:57	91487
Nickel	NELAP	0.49	0.98		10.7	mg/Kg-dry	1	08/30/2013 9:57	91487
Potassium	NELAP	4.9	9.8		1570	mg/Kg-dry	1	08/30/2013 9:57	91487
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 9:57	91487
Sodium	NELAP	2.45	4.9		258	mg/Kg-dry	1	08/30/2013 9:57	91487

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-003

Client Sample ID: 1467V-2-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 9:57	91487
Vanadium	NELAP	0.49	0.98		17.1	mg/Kg-dry	1	08/30/2013 9:57	91487
Zinc	NELAP	0.49	0.98		42.5	mg/Kg-dry	1	08/30/2013 9:57	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	08/30/2013 12:32	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.011	mg/Kg-dry	1	08/30/2013 13:57	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.149	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
1,2-Dichlorobenzene	NELAP	0.178	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
1,3-Dichlorobenzene	NELAP	0.188	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
1,4-Dichlorobenzene	NELAP	0.178	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4,5-Trichlorophenol	NELAP	0.106	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4,6-Trichlorophenol	NELAP	0.141	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4-Dichlorophenol	NELAP	0.135	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4-Dimethylphenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4-Dinitrophenol	NELAP	0.119	1.12		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,4-Dinitrotoluene	NELAP	0.116	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2,6-Dinitrotoluene	NELAP	0.121	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2-Chloronaphthalene	NELAP	0.134	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2-Chlorophenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2-Methylnaphthalene	NELAP	0.133	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
2-Nitrophenol	NELAP	0.125	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
3,3'-Dichlorobenzidine	NELAP	0.223	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Bromophenyl phenyl ether	NELAP	0.103	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Chloro-3-methylphenol	NELAP	0.123	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Chloroaniline	NELAP	0.135	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Chlorophenyl phenyl ether	NELAP	0.111	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Nitroaniline	NELAP	0.102	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
4-Nitrophenol	NELAP	0.109	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Bis(2-chloroethoxy)methane	NELAP	0.131	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Bis(2-chloroethyl)ether	NELAP	0.159	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Butyl benzyl phthalate	NELAP	0.113	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Carbazole		0.136	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-003

Client Sample ID: 1467V-2-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Dibenzofuran	NELAP	0.141	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Diethyl phthalate	NELAP	0.107	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Dimethyl phthalate	NELAP	0.102	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Di-n-butyl phthalate	NELAP	0.115	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Di-n-octyl phthalate	NELAP	0.116	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Hexachlorobenzene	NELAP	0.109	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Hexachlorobutadiene	NELAP	0.173	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Hexachlorocyclopentadiene	NELAP	0.114	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Hexachloroethane	NELAP	0.187	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Isophorone	NELAP	0.132	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
m,p-Cresol	NELAP	0.141	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Nitrobenzene	NELAP	0.14	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
N-Nitroso-di-n-propylamine	NELAP	0.123	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
N-Nitrosodiphenylamine	NELAP	0.103	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
o-Cresol	NELAP	0.132	0.558		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Pentachlorophenol	NELAP	0.737	2.23		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Phenol	NELAP	0.13	0.391		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 18:35	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.2	%REC	1	08/30/2013 18:35	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		61.1	%REC	1	08/30/2013 18:35	91492
Surr: 2-Fluorophenol		0	30.5-99		59.9	%REC	1	08/30/2013 18:35	91492
Surr: Nitrobenzene-d5		0	34.1-101		68.6	%REC	1	08/30/2013 18:35	91492
Surr: Phenol-d5		0	34.9-110		63.4	%REC	1	08/30/2013 18:35	91492
Surr: p-Terphenyl-d14		0	41.7-124		68	%REC	1	08/30/2013 18:35	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
2-Butanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
2-Hexanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
4-Methyl-2-pentanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Acetone	NELAP	0.008	0.04	J	0.019	mg/Kg-dry	1	09/03/2013 23:49	91591
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/03/2013 23:49	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-003

Client Sample ID: 1467V-2-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Ethylbenzene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 23:49	91591
m,p-Xylenes	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/03/2013 23:49	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 23:49	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Toluene	NELAP	0.0008	0.004		0.006	mg/Kg-dry	1	09/03/2013 23:49	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Vinyl acetate	NELAP	0.016	0.04		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 23:49	91591
Xylenes, Total	NELAP	0.0008	0.004		0.004	mg/Kg-dry	1	09/03/2013 23:49	91591
Surr: 1,2-Dichloroethane-d4			0 72.2-131		109	%REC	1	09/03/2013 23:49	91591
Surr: 4-Bromofluorobenzene			0 82.1-116		110	%REC	1	09/03/2013 23:49	91591
Surr: Dibromofluoromethane			0 77.7-120		99.9	%REC	1	09/03/2013 23:49	91591
Surr: Toluene-d8			0 86-116		102.2	%REC	1	09/03/2013 23:49	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-004

Client Sample ID: 1467V-2-B03-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10	%	1	08/29/2013 13:41	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90	%	1	08/29/2013 13:41	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.73		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0522	mg/L	1	09/06/2013 16:56	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0511	mg/L	1	09/04/2013 1:21	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:21	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:21	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:21	91553
Chromium	NELAP	0.004	0.01	J	0.0069	mg/L	1	09/04/2013 1:21	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:21	91553
Iron	NELAP	0.007	0.02	X	6.47	mg/L	1	09/04/2013 1:21	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:21	91553
Manganese	NELAP	0.0016	0.005		0.0477	mg/L	1	09/04/2013 1:21	91553
Nickel	NELAP	0.0033	0.01	J	0.0071	mg/L	1	09/04/2013 1:21	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:21	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:21	91553
Zinc	NELAP	0.0021	0.01		0.0436	mg/L	1	09/04/2013 1:21	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:30	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 14:56	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:03	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		5440	mg/Kg-dry	1	08/30/2013 10:03	91487
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/03/2013 19:51	91523
Arsenic	NELAP	1.18	2.36		5.44	mg/Kg-dry	1	08/30/2013 10:03	91487
Barium	NELAP	0.24	0.47		29.8	mg/Kg-dry	1	08/30/2013 10:03	91487
Beryllium	NELAP	0.05	0.09		0.31	mg/Kg-dry	1	08/30/2013 10:03	91487
Boron	NELAP	0.94	1.89		9.16	mg/Kg-dry	1	08/30/2013 10:03	91487
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 10:03	91487
Calcium	NELAP	2.36	4.72		87500	mg/Kg-dry	1	08/30/2013 10:03	91487
Chromium	NELAP	0.47	0.94		10.9	mg/Kg-dry	1	08/30/2013 10:03	91487
Cobalt	NELAP	0.47	0.94		4.5	mg/Kg-dry	1	08/30/2013 10:03	91487
Copper	NELAP	0.47	0.94		23.1	mg/Kg-dry	1	08/30/2013 10:03	91487
Iron	NELAP	0.94	1.89	X	15600	mg/Kg-dry	1	08/30/2013 10:03	91487
Lead	NELAP	1.89	3.77		6.33	mg/Kg-dry	1	08/30/2013 10:03	91487
Magnesium	NELAP	0.47	0.94		41200	mg/Kg-dry	1	08/30/2013 10:03	91487
Manganese	NELAP	0.24	0.47		318	mg/Kg-dry	1	08/30/2013 10:03	91487
Nickel	NELAP	0.47	0.94		11.9	mg/Kg-dry	1	08/30/2013 10:03	91487
Potassium	NELAP	4.72	9.43		1610	mg/Kg-dry	1	08/30/2013 10:03	91487
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 10:03	91487
Sodium	NELAP	2.36	4.72		292	mg/Kg-dry	1	08/30/2013 10:03	91487

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-004

Client Sample ID: 1467V-2-B03-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 10:03	91487
Vanadium	NELAP	0.47	0.94		18.2	mg/Kg-dry	1	08/30/2013 10:03	91487
Zinc	NELAP	0.47	0.94		54	mg/Kg-dry	1	08/30/2013 10:03	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 12:35	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.01	mg/Kg-dry	1	08/30/2013 14:00	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
1,2-Dichlorobenzene	NELAP	0.177	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
1,3-Dichlorobenzene	NELAP	0.187	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
1,4-Dichlorobenzene	NELAP	0.177	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4,5-Trichlorophenol	NELAP	0.106	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4,6-Trichlorophenol	NELAP	0.14	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4-Dichlorophenol	NELAP	0.135	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4-Dimethylphenol	NELAP	0.141	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4-Dinitrophenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,4-Dinitrotoluene	NELAP	0.116	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2,6-Dinitrotoluene	NELAP	0.12	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2-Chloronaphthalene	NELAP	0.133	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2-Chlorophenol	NELAP	0.141	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2-Methylnaphthalene	NELAP	0.132	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
2-Nitrophenol	NELAP	0.125	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
3,3'-Dichlorobenzidine	NELAP	0.222	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.11		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Bromophenyl phenyl ether	NELAP	0.102	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Chloro-3-methylphenol	NELAP	0.122	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Chloroaniline	NELAP	0.135	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Chlorophenyl phenyl ether	NELAP	0.11	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Nitroaniline	NELAP	0.101	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
4-Nitrophenol	NELAP	0.109	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Bis(2-chloroethoxy)methane	NELAP	0.13	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Bis(2-chloroethyl)ether	NELAP	0.158	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Butyl benzyl phthalate	NELAP	0.112	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Carbazole		0.136	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-004

Client Sample ID: 1467V-2-B03-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Dibenzofuran	NELAP	0.14	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Diethyl phthalate	NELAP	0.107	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Dimethyl phthalate	NELAP	0.101	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Di-n-butyl phthalate	NELAP	0.115	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Di-n-octyl phthalate	NELAP	0.116	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Hexachlorobenzene	NELAP	0.109	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Hexachlorobutadiene	NELAP	0.172	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Hexachlorocyclopentadiene	NELAP	0.113	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Hexachloroethane	NELAP	0.186	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Isophorone	NELAP	0.131	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
m,p-Cresol	NELAP	0.14	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Nitrobenzene	NELAP	0.139	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
N-Nitroso-di-n-propylamine	NELAP	0.122	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
N-Nitrosodiphenylamine	NELAP	0.102	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
o-Cresol	NELAP	0.131	0.556		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Pentachlorophenol	NELAP	0.734	2.22		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Phenol	NELAP	0.129	0.389		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 19:09	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		62.8	%REC	1	08/30/2013 19:09	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		51.2	%REC	1	08/30/2013 19:09	91492
Surr: 2-Fluorophenol		0	30.5-99		51.6	%REC	1	08/30/2013 19:09	91492
Surr: Nitrobenzene-d5		0	34.1-101		56.1	%REC	1	08/30/2013 19:09	91492
Surr: Phenol-d5		0	34.9-110		54.4	%REC	1	08/30/2013 19:09	91492
Surr: p-Terphenyl-d14		0	41.7-124		66.9	%REC	1	08/30/2013 19:09	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
2-Butanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
2-Hexanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
4-Methyl-2-pentanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Acetone	NELAP	0.0078	0.039	J	0.034	mg/Kg-dry	1	09/04/2013 0:16	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 0:16	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-004

Client Sample ID: 1467V-2-B03-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 0:16	91591
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 0:16	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 0:16	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Toluene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 0:16	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Vinyl acetate	NELAP	0.0156	0.039		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 0:16	91591
Xylenes, Total	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/04/2013 0:16	91591
Surr: 1,2-Dichloroethane-d4			0 72.2-131		110.8	%REC	1	09/04/2013 0:16	91591
Surr: 4-Bromofluorobenzene			0 82.1-116		106.6	%REC	1	09/04/2013 0:16	91591
Surr: Dibromofluoromethane			0 77.7-120		99.7	%REC	1	09/04/2013 0:16	91591
Surr: Toluene-d8			0 86-116		101.2	%REC	1	09/04/2013 0:16	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-005

Client Sample ID: 1467V-2-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 8:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.2	%	1	08/29/2013 13:42	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.8	%	1	08/29/2013 13:42	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.68		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.92	mg/L	1	09/06/2013 17:15	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0473	mg/L	1	09/04/2013 1:32	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:32	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:32	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:32	91553
Chromium	NELAP	0.004	0.01	J	0.0065	mg/L	1	09/04/2013 1:32	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:32	91553
Iron	NELAP	0.007	0.02	X	6.23	mg/L	1	09/04/2013 1:32	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:32	91553
Manganese	NELAP	0.0016	0.005		0.0472	mg/L	1	09/04/2013 1:32	91553
Nickel	NELAP	0.0033	0.01	J	0.0057	mg/L	1	09/04/2013 1:32	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:32	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:32	91553
Zinc	NELAP	0.0021	0.01		0.0348	mg/L	1	09/04/2013 1:32	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:48	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 14:59	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:05	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		4870	mg/Kg-dry	1	08/30/2013 10:09	91487
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 19:54	91523
Arsenic	NELAP	1.2	2.4		3.55	mg/Kg-dry	1	08/30/2013 10:09	91487
Barium	NELAP	0.24	0.48		23.8	mg/Kg-dry	1	08/30/2013 10:09	91487
Beryllium	NELAP	0.05	0.1		0.28	mg/Kg-dry	1	08/30/2013 10:09	91487
Boron	NELAP	0.96	1.92		8.44	mg/Kg-dry	1	08/30/2013 10:09	91487
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 10:09	91487
Calcium	NELAP	2.4	4.81		71600	mg/Kg-dry	1	08/30/2013 10:09	91487
Chromium	NELAP	0.48	0.96		9.05	mg/Kg-dry	1	08/30/2013 10:09	91487
Cobalt	NELAP	0.48	0.96		3.78	mg/Kg-dry	1	08/30/2013 10:09	91487
Copper	NELAP	0.48	0.96		10.7	mg/Kg-dry	1	08/30/2013 10:09	91487
Iron	NELAP	0.96	1.92		10300	mg/Kg-dry	1	08/30/2013 10:09	91487
Lead	NELAP	1.92	3.85		4.67	mg/Kg-dry	1	08/30/2013 10:09	91487
Magnesium	NELAP	0.48	0.96		33600	mg/Kg-dry	1	08/30/2013 10:09	91487
Manganese	NELAP	0.24	0.48		273	mg/Kg-dry	1	08/30/2013 10:09	91487
Nickel	NELAP	0.48	0.96		9.8	mg/Kg-dry	1	08/30/2013 10:09	91487
Potassium	NELAP	4.81	9.62		1480	mg/Kg-dry	1	08/30/2013 10:09	91487
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 10:09	91487
Sodium	NELAP	2.4	4.81		266	mg/Kg-dry	1	08/30/2013 10:09	91487

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-005

Client Sample ID: 1467V-2-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 8:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 10:09	91487
Vanadium	NELAP	0.48	0.96		14.4	mg/Kg-dry	1	08/30/2013 10:09	91487
Zinc	NELAP	0.48	0.96		30.5	mg/Kg-dry	1	08/30/2013 10:09	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	08/30/2013 12:38	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.008	mg/Kg-dry	1	08/30/2013 14:02	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.146	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
1,2-Dichlorobenzene	NELAP	0.174	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
1,3-Dichlorobenzene	NELAP	0.184	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
1,4-Dichlorobenzene	NELAP	0.174	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4,5-Trichlorophenol	NELAP	0.104	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4,6-Trichlorophenol	NELAP	0.138	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4-Dichlorophenol	NELAP	0.132	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4-Dimethylphenol	NELAP	0.139	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4-Dinitrophenol	NELAP	0.117	1.09		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,4-Dinitrotoluene	NELAP	0.114	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2,6-Dinitrotoluene	NELAP	0.118	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2-Chloronaphthalene	NELAP	0.131	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2-Chlorophenol	NELAP	0.139	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2-Methylnaphthalene	NELAP	0.13	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2-Nitroaniline	NELAP	0.1	1.09		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
2-Nitrophenol	NELAP	0.123	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
3,3'-Dichlorobenzidine	NELAP	0.219	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
3-Nitroaniline	NELAP	0.09	1.09		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4,6-Dinitro-2-methylphenol	NELAP	0.118	1.09		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Bromophenyl phenyl ether	NELAP	0.101	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Chloro-3-methylphenol	NELAP	0.12	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Chloroaniline	NELAP	0.132	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Chlorophenyl phenyl ether	NELAP	0.108	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Nitroaniline	NELAP	0.1	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
4-Nitrophenol	NELAP	0.107	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Bis(2-chloroethoxy)methane	NELAP	0.128	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Bis(2-chloroethyl)ether	NELAP	0.155	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.128	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Butyl benzyl phthalate	NELAP	0.111	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Carbazole		0.134	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-005

Client Sample ID: 1467V-2-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 8:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Dibenzofuran	NELAP	0.138	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Diethyl phthalate	NELAP	0.105	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Dimethyl phthalate	NELAP	0.1	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Di-n-butyl phthalate	NELAP	0.113	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Di-n-octyl phthalate	NELAP	0.114	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Hexachlorobenzene	NELAP	0.107	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Hexachlorobutadiene	NELAP	0.17	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Hexachlorocyclopentadiene	NELAP	0.112	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Hexachloroethane	NELAP	0.183	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Isophorone	NELAP	0.129	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
m,p-Cresol	NELAP	0.138	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Nitrobenzene	NELAP	0.137	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
N-Nitroso-di-n-propylamine	NELAP	0.12	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
N-Nitrosodiphenylamine	NELAP	0.101	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
o-Cresol	NELAP	0.129	0.547		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Pentachlorophenol	NELAP	0.723	2.19		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Phenol	NELAP	0.127	0.383		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 19:41	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		68.6	%REC	1	08/30/2013 19:41	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		64.8	%REC	1	08/30/2013 19:41	91492
Surr: 2-Fluorophenol		0	30.5-99		58.3	%REC	1	08/30/2013 19:41	91492
Surr: Nitrobenzene-d5		0	34.1-101		71	%REC	1	08/30/2013 19:41	91492
Surr: Phenol-d5		0	34.9-110		59.9	%REC	1	08/30/2013 19:41	91492
Surr: p-Terphenyl-d14		0	41.7-124		65.3	%REC	1	08/30/2013 19:41	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
2-Butanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
2-Hexanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
4-Methyl-2-pentanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Acetone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 0:42	91591
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-005

Client Sample ID: 1467V-2-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 8:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 0:42	91591
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 0:42	91591
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 0:42	91591
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Vinyl acetate	NELAP	0.0144	0.036		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 0:42	91591
Xylenes, Total	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 0:42	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.2	%REC	1	09/04/2013 0:42	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		104.8	%REC	1	09/04/2013 0:42	91591
Surr: Dibromofluoromethane		0	77.7-120		98.6	%REC	1	09/04/2013 0:42	91591
Surr: Toluene-d8		0	86-116		100.6	%REC	1	09/04/2013 0:42	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-006

Client Sample ID: 1467V-2-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		8.3	%	1	08/29/2013 13:42	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		91.7	%	1	08/29/2013 13:42	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.56		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.031	mg/L	1	09/04/2013 1:36	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:36	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:36	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:36	91553
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/04/2013 1:36	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:36	91553
Iron	NELAP	0.007	0.02		2.79	mg/L	1	09/04/2013 1:36	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:36	91553
Manganese	NELAP	0.0016	0.005		0.0167	mg/L	1	09/04/2013 1:36	91553
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 1:36	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:36	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:36	91553
Zinc	NELAP	0.0021	0.01		0.0123	mg/L	1	09/04/2013 1:36	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:52	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 15:02	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:07	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		5730	mg/Kg-dry	1	08/30/2013 10:15	91487
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 19:58	91523
Arsenic	NELAP	1.25	2.5		4.13	mg/Kg-dry	1	08/30/2013 10:15	91487
Barium	NELAP	0.25	0.5		29.7	mg/Kg-dry	1	08/30/2013 10:15	91487
Beryllium	NELAP	0.05	0.1		0.33	mg/Kg-dry	1	08/30/2013 10:15	91487
Boron	NELAP	1	2		9.23	mg/Kg-dry	1	08/30/2013 10:15	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 10:15	91487
Calcium	NELAP	2.5	5		77600	mg/Kg-dry	1	08/30/2013 10:15	91487
Chromium	NELAP	0.5	1		9.75	mg/Kg-dry	1	08/30/2013 10:15	91487
Cobalt	NELAP	0.5	1		3.71	mg/Kg-dry	1	08/30/2013 10:15	91487
Copper	NELAP	0.5	1		10.8	mg/Kg-dry	1	08/30/2013 10:15	91487
Iron	NELAP	1	2		10800	mg/Kg-dry	1	08/30/2013 10:15	91487
Lead	NELAP	2	4		5.3	mg/Kg-dry	1	08/30/2013 10:15	91487
Magnesium	NELAP	0.5	1		34100	mg/Kg-dry	1	08/30/2013 10:15	91487
Manganese	NELAP	0.25	0.5		284	mg/Kg-dry	1	08/30/2013 10:15	91487
Nickel	NELAP	0.5	1		10.1	mg/Kg-dry	1	08/30/2013 10:15	91487
Potassium	NELAP	5	10		1630	mg/Kg-dry	1	08/30/2013 10:15	91487
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	08/30/2013 10:15	91487
Sodium	NELAP	2.5	5		224	mg/Kg-dry	1	08/30/2013 10:15	91487
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	08/30/2013 10:15	91487
Vanadium	NELAP	0.5	1		15.9	mg/Kg-dry	1	08/30/2013 10:15	91487
Zinc	NELAP	0.5	1		24.8	mg/Kg-dry	1	08/30/2013 10:15	91487

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-006

Client Sample ID: 1467V-2-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545		< 0.545	mg/Kg-dry	1	08/30/2013 12:42	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.008	mg/Kg-dry	1	08/30/2013 14:04	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.146	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
1,2-Dichlorobenzene	NELAP	0.175	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
1,3-Dichlorobenzene	NELAP	0.184	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
1,4-Dichlorobenzene	NELAP	0.175	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4,5-Trichlorophenol	NELAP	0.104	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4,6-Trichlorophenol	NELAP	0.138	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4-Dichlorophenol	NELAP	0.133	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4-Dimethylphenol	NELAP	0.139	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,4-Dinitrotoluene	NELAP	0.114	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2,6-Dinitrotoluene	NELAP	0.119	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2-Chloronaphthalene	NELAP	0.132	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2-Chlorophenol	NELAP	0.139	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2-Methylnaphthalene	NELAP	0.131	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
2-Nitrophenol	NELAP	0.123	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
3,3'-Dichlorobenzidine	NELAP	0.22	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Bromophenyl phenyl ether	NELAP	0.101	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Chloro-3-methylphenol	NELAP	0.121	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Chloroaniline	NELAP	0.133	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Chlorophenyl phenyl ether	NELAP	0.109	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Nitroaniline	NELAP	0.1	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
4-Nitrophenol	NELAP	0.108	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Bis(2-chloroethoxy)methane	NELAP	0.128	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Bis(2-chloroethyl)ether	NELAP	0.156	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.128	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Butyl benzyl phthalate	NELAP	0.111	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Carbazole		0.134	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Dibenzofuran	NELAP	0.138	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Diethyl phthalate	NELAP	0.105	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-006

Client Sample ID: 1467V-2-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.1	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Di-n-butyl phthalate	NELAP	0.113	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Di-n-octyl phthalate	NELAP	0.114	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Hexachlorobenzene	NELAP	0.108	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Hexachlorobutadiene	NELAP	0.17	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Hexachlorocyclopentadiene	NELAP	0.112	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Hexachloroethane	NELAP	0.183	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Isophorone	NELAP	0.13	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
m,p-Cresol	NELAP	0.138	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Nitrobenzene	NELAP	0.137	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
N-Nitroso-di-n-propylamine	NELAP	0.121	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
N-Nitrosodiphenylamine	NELAP	0.101	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
o-Cresol	NELAP	0.13	0.549		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Pentachlorophenol	NELAP	0.725	2.2		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Phenol	NELAP	0.127	0.384		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	08/30/2013 20:14	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		66.6	%REC	1	08/30/2013 20:14	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		62	%REC	1	08/30/2013 20:14	91492
Surr: 2-Fluorophenol		0	30.5-99		55	%REC	1	08/30/2013 20:14	91492
Surr: Nitrobenzene-d5		0	34.1-101		65.7	%REC	1	08/30/2013 20:14	91492
Surr: Phenol-d5		0	34.9-110		59.9	%REC	1	08/30/2013 20:14	91492
Surr: p-Terphenyl-d14		0	41.7-124		68.5	%REC	1	08/30/2013 20:14	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
2-Butanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
2-Hexanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
4-Methyl-2-pentanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Acetone	NELAP	0.007	0.035	J	0.012	mg/Kg-dry	1	09/04/2013 1:08	91591
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/04/2013 1:08	91591
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-006

Client Sample ID: 1467V-2-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 1:08	91591
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 1:08	91591
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 1:08	91591
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Toluene	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/04/2013 1:08	91591
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Vinyl acetate	NELAP	0.014	0.035		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 1:08	91591
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/04/2013 1:08	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		107.2	%REC	1	09/04/2013 1:08	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		110.5	%REC	1	09/04/2013 1:08	91591
Surr: Dibromofluoromethane		0	77.7-120		98.7	%REC	1	09/04/2013 1:08	91591
Surr: Toluene-d8		0	86-116		103.8	%REC	1	09/04/2013 1:08	91591

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-007

Client Sample ID: 1467V-2-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.5	%	1	08/29/2013 13:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.5	%	1	08/29/2013 13:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.57		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0308	mg/L	1	09/04/2013 1:39	91553
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 1:39	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:39	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:39	91553
Chromium	NELAP	0.004	0.01	J	0.0046	mg/L	1	09/04/2013 1:39	91553
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 1:39	91553
Iron	NELAP	0.007	0.02		3.04	mg/L	1	09/04/2013 1:39	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:39	91553
Manganese	NELAP	0.0016	0.005		0.0234	mg/L	1	09/04/2013 1:39	91553
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 1:39	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:39	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:39	91553
Zinc	NELAP	0.0021	0.01		0.0115	mg/L	1	09/04/2013 1:39	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 8:56	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 15:06	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:09	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		6010	mg/Kg-dry	1	08/30/2013 10:21	91487
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 20:02	91523
Arsenic	NELAP	1.14	2.27		4.14	mg/Kg-dry	1	08/30/2013 10:21	91487
Barium	NELAP	0.23	0.45		27.1	mg/Kg-dry	1	08/30/2013 10:21	91487
Beryllium	NELAP	0.05	0.09		0.35	mg/Kg-dry	1	08/30/2013 10:21	91487
Boron	NELAP	0.91	1.82		9.58	mg/Kg-dry	1	08/30/2013 10:21	91487
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	08/30/2013 10:21	91487
Calcium	NELAP	2.27	4.55		82400	mg/Kg-dry	1	08/30/2013 10:21	91487
Chromium	NELAP	0.45	0.91		11.6	mg/Kg-dry	1	08/30/2013 10:21	91487
Cobalt	NELAP	0.45	0.91		4.12	mg/Kg-dry	1	08/30/2013 10:21	91487
Copper	NELAP	0.45	0.91		10.6	mg/Kg-dry	1	08/30/2013 10:21	91487
Iron	NELAP	0.91	1.82		11200	mg/Kg-dry	1	08/30/2013 10:21	91487
Lead	NELAP	1.82	3.64		4.96	mg/Kg-dry	1	08/30/2013 10:21	91487
Magnesium	NELAP	0.45	0.91		38900	mg/Kg-dry	1	08/30/2013 10:21	91487
Manganese	NELAP	0.23	0.45		252	mg/Kg-dry	1	08/30/2013 10:21	91487
Nickel	NELAP	0.45	0.91		9.02	mg/Kg-dry	1	08/30/2013 10:21	91487
Potassium	NELAP	4.55	9.09		1740	mg/Kg-dry	1	08/30/2013 10:21	91487
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	08/30/2013 10:21	91487
Sodium	NELAP	2.27	4.55		139	mg/Kg-dry	1	08/30/2013 10:21	91487
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	08/30/2013 10:21	91487
Vanadium	NELAP	0.45	0.91		16.1	mg/Kg-dry	1	08/30/2013 10:21	91487
Zinc	NELAP	0.45	0.91		25.1	mg/Kg-dry	1	08/30/2013 10:21	91487

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-007

Client Sample ID: 1467V-2-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	08/30/2013 12:45	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.011	mg/Kg-dry	1	08/30/2013 14:06	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
1,2-Dichlorobenzene	NELAP	0.177	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
1,3-Dichlorobenzene	NELAP	0.187	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
1,4-Dichlorobenzene	NELAP	0.177	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4,5-Trichlorophenol	NELAP	0.106	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4,6-Trichlorophenol	NELAP	0.14	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4-Dichlorophenol	NELAP	0.135	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4-Dimethylphenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4-Dinitrophenol	NELAP	0.119	1.12		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,4-Dinitrotoluene	NELAP	0.116	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2,6-Dinitrotoluene	NELAP	0.12	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2-Chloronaphthalene	NELAP	0.134	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2-Chlorophenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2-Methylnaphthalene	NELAP	0.133	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2-Nitroaniline	NELAP	0.101	1.12		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
2-Nitrophenol	NELAP	0.125	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
3,3'-Dichlorobenzidine	NELAP	0.223	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
3-Nitroaniline	NELAP	0.091	1.12		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Bromophenyl phenyl ether	NELAP	0.103	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Chloro-3-methylphenol	NELAP	0.123	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Chloroaniline	NELAP	0.135	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Chlorophenyl phenyl ether	NELAP	0.11	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Nitroaniline	NELAP	0.101	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
4-Nitrophenol	NELAP	0.109	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Bis(2-chloroethoxy)methane	NELAP	0.13	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Bis(2-chloroethyl)ether	NELAP	0.158	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Butyl benzyl phthalate	NELAP	0.113	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Carbazole		0.136	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Dibenzofuran	NELAP	0.14	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Diethyl phthalate	NELAP	0.107	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-007

Client Sample ID: 1467V-2-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.101	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Di-n-butyl phthalate	NELAP	0.115	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Di-n-octyl phthalate	NELAP	0.116	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Hexachlorobenzene	NELAP	0.109	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Hexachlorobutadiene	NELAP	0.173	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Hexachlorocyclopentadiene	NELAP	0.114	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Hexachloroethane	NELAP	0.186	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Isophorone	NELAP	0.132	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
m,p-Cresol	NELAP	0.14	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Nitrobenzene	NELAP	0.139	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
N-Nitroso-di-n-propylamine	NELAP	0.123	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
N-Nitrosodiphenylamine	NELAP	0.103	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
o-Cresol	NELAP	0.132	0.558		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Pentachlorophenol	NELAP	0.736	2.23		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Phenol	NELAP	0.129	0.39		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	08/30/2013 20:47	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		60.4	%REC	1	08/30/2013 20:47	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		51.7	%REC	1	08/30/2013 20:47	91492
Surr: 2-Fluorophenol		0	30.5-99		54.4	%REC	1	08/30/2013 20:47	91492
Surr: Nitrobenzene-d5		0	34.1-101		52.6	%REC	1	08/30/2013 20:47	91492
Surr: Phenol-d5		0	34.9-110		57.8	%REC	1	08/30/2013 20:47	91492
Surr: p-Terphenyl-d14		0	41.7-124		60.3	%REC	1	08/30/2013 20:47	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,1,2-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,1-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,1-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,2-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,2-Dichloropropane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
2-Butanone	NELAP	0.0069	0.034		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
2-Hexanone	NELAP	0.0069	0.034		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
4-Methyl-2-pentanone	NELAP	0.0069	0.034		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Acetone	NELAP	0.0069	0.034	J	0.008	mg/Kg-dry	1	09/04/2013 1:35	91591
Benzene	NELAP	0.0003	0.001		0.002	mg/Kg-dry	1	09/04/2013 1:35	91591
Bromodichloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Bromoform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Carbon disulfide	NELAP	0.0021	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Carbon tetrachloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Chlorobenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081487

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081487-007

Client Sample ID: 1467V-2-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Chloroform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
cis-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Dibromochloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Ethylbenzene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/04/2013 1:35	91591
m,p-Xylenes	NELAP	0.0007	0.003	J	0.002	mg/Kg-dry	1	09/04/2013 1:35	91591
Methyl tert-butyl ether	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Methylene chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
o-Xylene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/04/2013 1:35	91591
Styrene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Tetrachloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Toluene	NELAP	0.0007	0.003		0.004	mg/Kg-dry	1	09/04/2013 1:35	91591
trans-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Trichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Vinyl acetate	NELAP	0.0137	0.034		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Vinyl chloride	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/04/2013 1:35	91591
Xylenes, Total	NELAP	0.0007	0.003	J	0.002	mg/Kg-dry	1	09/04/2013 1:35	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.4	%REC	1	09/04/2013 1:35	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		109.1	%REC	1	09/04/2013 1:35	91591
Surr: Dibromofluoromethane		0	77.7-120		101.6	%REC	1	09/04/2013 1:35	91591
Surr: Toluene-d8		0	86-116		99.9	%REC	1	09/04/2013 1:35	91591



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Mine Rare Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13081487</u> Sample Temp: <u>2.2</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																
ANALYSES																			
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments			
13081487-001	1467V-a-B01	8-28-13	7:25AM	S	X	X					X	X	X	X		0-4			
-002	1467V-a-B02	8-28-13	8:25AM													0-4			
003	1467V-a-B03-1	8-28-13	8:35AM													0-5			
-004	1467V-a-B03-1 DUP	8-28-13	8:40AM													0-5			
005	1467V-a-B03-2	8-28-13	8:45AM													S-10			
-006	1467V-a-B04-1	8-28-13	8:05AM													0-5			
007	1467V-a-B04-2	8-28-13	8:10AM	S	X	X					X	X	X	X		S-10			
Relinquished by: <u>Zachary (AED)</u>					Date/Time	8-28-13 3:25PM											Date/Time	8-28-13 32.5	
Relinquished by: <u>Shelly Hennessy</u>					Date/Time	8-28-13 6:35P											Date/Time	8/28/13 6:35P	
Relinquished by: <u>Shelly Hennessy</u>					Date/Time	8/28/13 8:40											Date/Time	8/28/13 21:30	

Received by: Shelly Hennessy
 Received by: Shelly Hennessy
 Received by: Shelly Hennessy
 8/28/13 8:40
 8/28/13 21:30
 8/28/13 21:30
 Andrew Engineering, Inc.



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

43W407, 43W427 and 43W461 US 20

City: Unincorporated State: IL Zip Code: 61040

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08852 Longitude: -88.46041
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08852 Longitude: -88.46041

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 1467V-3-B01 WAS SAMPLED ADJACENT TO ISGS SITE 1467V-3. SEE FIGURE 2 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081488

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

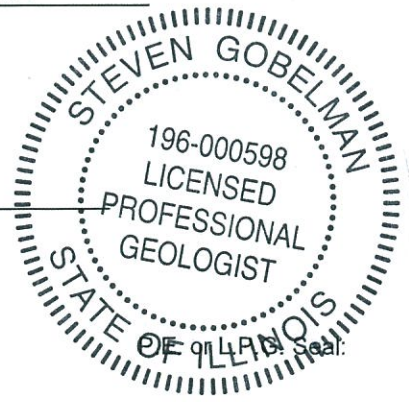
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-3

Upstairs Downstairs Shoppe/The Shoppe Next Door/Roses and Roosters

Sample ID	1467V-3-B01-1	1467V-3-B01-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10						
Sample Date	8/26/2013	8/26/2013						
PID	0	0						
Sample pH	8.29	8.71						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081488

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-001

Client Sample ID: 1467V-3-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.1	%	1	08/29/2013 13:43	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.9	%	1	08/29/2013 13:43	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.29		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.47	mg/L	1	09/06/2013 17:19	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0627	mg/L	1	09/04/2013 1:43	91553
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/04/2013 1:43	91553
Boron	NELAP	1	2	J	1.54	mg/L	1	09/04/2013 1:43	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:43	91553
Chromium	NELAP	0.004	0.01		0.0251	mg/L	1	09/04/2013 1:43	91553
Cobalt	NELAP	0.0022	0.01	J	0.0025	mg/L	1	09/04/2013 1:43	91553
Iron	NELAP	0.007	0.02	SX	12	mg/L	1	09/04/2013 1:43	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:43	91553
Manganese	NELAP	0.0016	0.005		0.0754	mg/L	1	09/04/2013 1:43	91553
Nickel	NELAP	0.0033	0.01		0.0118	mg/L	1	09/04/2013 1:43	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:43	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:43	91553
Zinc	NELAP	0.0021	0.01		0.0343	mg/L	1	09/04/2013 1:43	91553
<i>MS QC limits for Fe are not applicable due to high sample/spike ratio.</i>									
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 9:00	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 15:09	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:12	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		9870	mg/Kg-dry	1	08/30/2013 10:27	91487
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 20:05	91523
Arsenic	NELAP	1.2	2.4		6.13	mg/Kg-dry	1	08/30/2013 10:27	91487
Barium	NELAP	0.24	0.48		53.4	mg/Kg-dry	1	08/30/2013 10:27	91487
Beryllium	NELAP	0.05	0.1		0.55	mg/Kg-dry	1	08/30/2013 10:27	91487
Boron	NELAP	0.96	1.92		11.1	mg/Kg-dry	1	08/30/2013 10:27	91487
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 10:27	91487
Calcium	NELAP	2.4	4.81		44900	mg/Kg-dry	1	08/30/2013 10:27	91487
Chromium	NELAP	0.48	0.96	X	15.3	mg/Kg-dry	1	08/30/2013 10:27	91487
Cobalt	NELAP	0.48	0.96		6.49	mg/Kg-dry	1	08/30/2013 10:27	91487
Copper	NELAP	0.48	0.96		17.6	mg/Kg-dry	1	08/30/2013 10:27	91487
Iron	NELAP	0.96	1.92	X	18200	mg/Kg-dry	1	08/30/2013 10:27	91487
Lead	NELAP	1.92	3.85		6.38	mg/Kg-dry	1	08/30/2013 10:27	91487
Magnesium	NELAP	0.48	0.96		27300	mg/Kg-dry	1	08/30/2013 10:27	91487
Manganese	NELAP	0.24	0.48		447	mg/Kg-dry	1	08/30/2013 10:27	91487
Nickel	NELAP	0.48	0.96		21.3	mg/Kg-dry	1	08/30/2013 10:27	91487
Potassium	NELAP	4.81	9.62		2010	mg/Kg-dry	1	08/30/2013 10:27	91487
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 10:27	91487
Sodium	NELAP	2.4	4.81		769	mg/Kg-dry	1	08/30/2013 10:27	91487

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-001

Client Sample ID: 1467V-3-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 10:27	91487
Vanadium	NELAP	0.48	0.96		23.5	mg/Kg-dry	1	08/30/2013 10:27	91487
Zinc	NELAP	0.48	0.96		43.5	mg/Kg-dry	1	08/30/2013 10:27	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 12:48	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.017	mg/Kg-dry	1	08/30/2013 10:59	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
1,2-Dichlorobenzene	NELAP	0.192	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
1,3-Dichlorobenzene	NELAP	0.203	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
1,4-Dichlorobenzene	NELAP	0.192	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4,5-Trichlorophenol	NELAP	0.115	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4,6-Trichlorophenol	NELAP	0.152	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4-Dichlorophenol	NELAP	0.146	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4-Dimethylphenol	NELAP	0.153	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4-Dinitrophenol	NELAP	0.129	1.21		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,4-Dinitrotoluene	NELAP	0.126	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2,6-Dinitrotoluene	NELAP	0.13	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2-Chloronaphthalene	NELAP	0.145	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2-Chlorophenol	NELAP	0.153	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2-Methylnaphthalene	NELAP	0.144	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
2-Nitrophenol	NELAP	0.135	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
3,3'-Dichlorobenzidine	NELAP	0.241	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
3-Nitroaniline	NELAP	0.099	1.21		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4,6-Dinitro-2-methylphenol	NELAP	0.13	1.21		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Bromophenyl phenyl ether	NELAP	0.111	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Chloro-3-methylphenol	NELAP	0.133	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Chloroaniline	NELAP	0.146	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Chlorophenyl phenyl ether	NELAP	0.119	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Nitroaniline	NELAP	0.11	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
4-Nitrophenol	NELAP	0.118	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Bis(2-chloroethoxy)methane	NELAP	0.141	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Bis(2-chloroethyl)ether	NELAP	0.171	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.141	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Butyl benzyl phthalate	NELAP	0.122	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Carbazole		0.147	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-001

Client Sample ID: 1467V-3-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Dibenzofuran	NELAP	0.152	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Diethyl phthalate	NELAP	0.116	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Dimethyl phthalate	NELAP	0.11	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Di-n-butyl phthalate	NELAP	0.124	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Di-n-octyl phthalate	NELAP	0.126	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Hexachlorobenzene	NELAP	0.118	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Hexachlorobutadiene	NELAP	0.187	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Hexachlorocyclopentadiene	NELAP	0.123	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Hexachloroethane	NELAP	0.202	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Isophorone	NELAP	0.142	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
m,p-Cresol	NELAP	0.152	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Nitrobenzene	NELAP	0.151	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
N-Nitroso-di-n-propylamine	NELAP	0.133	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
N-Nitrosodiphenylamine	NELAP	0.111	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
o-Cresol	NELAP	0.142	0.604		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Pentachlorophenol	NELAP	0.797	2.41		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Phenol	NELAP	0.14	0.422		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	08/30/2013 22:25	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.5	%REC	1	08/30/2013 22:25	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		43.9	%REC	1	08/30/2013 22:25	91492
Surr: 2-Fluorophenol		0	30.5-99		60.4	%REC	1	08/30/2013 22:25	91492
Surr: Nitrobenzene-d5		0	34.1-101		60.2	%REC	1	08/30/2013 22:25	91492
Surr: Phenol-d5		0	34.9-110		63.8	%REC	1	08/30/2013 22:25	91492
Surr: p-Terphenyl-d14		0	41.7-124		68.5	%REC	1	08/30/2013 22:25	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
2-Butanone	NELAP	0.0081	0.04		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
2-Hexanone	NELAP	0.0081	0.04		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
4-Methyl-2-pentanone	NELAP	0.0081	0.04		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Acetone	NELAP	0.0081	0.04		0.049	mg/Kg-dry	1	09/04/2013 2:01	91591
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-001

Client Sample ID: 1467V-3-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Vinyl acetate	NELAP	0.0162	0.04		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:01	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.2	%REC	1	09/04/2013 2:01	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		103.6	%REC	1	09/04/2013 2:01	91591
Surr: Dibromofluoromethane		0	77.7-120		98.3	%REC	1	09/04/2013 2:01	91591
Surr: Toluene-d8		0	86-116		100.8	%REC	1	09/04/2013 2:01	91591

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-002

Client Sample ID: 1467V-3-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.7	%	1	08/29/2013 13:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.3	%	1	08/29/2013 13:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.71		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0917	mg/L	1	09/06/2013 17:22	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0936	mg/L	1	09/04/2013 1:51	91553
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/04/2013 1:51	91553
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 1:51	91553
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 1:51	91553
Chromium	NELAP	0.004	0.01		0.0141	mg/L	1	09/04/2013 1:51	91553
Cobalt	NELAP	0.0022	0.01	J	0.0036	mg/L	1	09/04/2013 1:51	91553
Iron	NELAP	0.007	0.02	X	11.6	mg/L	1	09/04/2013 1:51	91553
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 1:51	91553
Manganese	NELAP	0.0016	0.005		0.134	mg/L	1	09/04/2013 1:51	91553
Nickel	NELAP	0.0033	0.01		0.0132	mg/L	1	09/04/2013 1:51	91553
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 1:51	91553
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 1:51	91553
Zinc	NELAP	0.0021	0.01		0.0505	mg/L	1	09/04/2013 1:51	91553
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 9:03	91554
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/04/2013 15:13	91554
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:14	91582
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55	S	6340	mg/Kg-dry	1	08/30/2013 10:33	91487
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 20:09	91523
Arsenic	NELAP	1.14	2.27		3.52	mg/Kg-dry	1	08/30/2013 10:33	91487
Barium	NELAP	0.23	0.45		27.6	mg/Kg-dry	1	08/30/2013 10:33	91487
Beryllium	NELAP	0.05	0.09		0.36	mg/Kg-dry	1	08/30/2013 10:33	91487
Boron	NELAP	0.91	1.82		9.81	mg/Kg-dry	1	08/30/2013 10:33	91487
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	08/30/2013 10:33	91487
Calcium	NELAP	2.27	4.55	S	94600	mg/Kg-dry	1	08/30/2013 10:33	91487
Chromium	NELAP	0.45	0.91		11.7	mg/Kg-dry	1	08/30/2013 10:33	91487
Cobalt	NELAP	0.45	0.91		4.27	mg/Kg-dry	1	08/30/2013 10:33	91487
Copper	NELAP	0.45	0.91		13	mg/Kg-dry	1	08/30/2013 10:33	91487
Iron	NELAP	0.91	1.82	S	12500	mg/Kg-dry	1	08/30/2013 10:33	91487
Lead	NELAP	1.82	3.64		5.15	mg/Kg-dry	1	08/30/2013 10:33	91487
Magnesium	NELAP	0.45	0.91	S	43000	mg/Kg-dry	1	08/30/2013 10:33	91487
Manganese	NELAP	0.23	0.45	S	294	mg/Kg-dry	1	08/30/2013 10:33	91487
Nickel	NELAP	0.45	0.91		12.1	mg/Kg-dry	1	08/30/2013 10:33	91487
Potassium	NELAP	4.55	9.09	S	1810	mg/Kg-dry	1	08/30/2013 10:33	91487
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	08/30/2013 10:33	91487
Sodium	NELAP	2.27	4.55	S	629	mg/Kg-dry	1	08/30/2013 10:33	91487

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-002

Client Sample ID: 1467V-3-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	08/30/2013 10:33	91487
Vanadium	NELAP	0.45	0.91		17.5	mg/Kg-dry	1	08/30/2013 10:33	91487
Zinc	NELAP	0.45	0.91		28.2	mg/Kg-dry	1	08/30/2013 10:33	91487
<i>MS QC limits for Al, Ca, Fe, Mg, Mn, K, and Na are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577	JS	0.406	mg/Kg-dry	1	08/30/2013 12:52	91496
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.013	mg/Kg-dry	1	08/30/2013 11:38	91477
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.163	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
1,2-Dichlorobenzene	NELAP	0.194	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
1,3-Dichlorobenzene	NELAP	0.205	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
1,4-Dichlorobenzene	NELAP	0.194	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4,5-Trichlorophenol	NELAP	0.116	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4,6-Trichlorophenol	NELAP	0.154	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4-Dichlorophenol	NELAP	0.148	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4-Dimethylphenol	NELAP	0.155	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4-Dinitrophenol	NELAP	0.131	1.22		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,4-Dinitrotoluene	NELAP	0.127	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2,6-Dinitrotoluene	NELAP	0.132	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2-Chloronaphthalene	NELAP	0.147	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2-Chlorophenol	NELAP	0.155	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2-Methylnaphthalene	NELAP	0.145	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
2-Nitrophenol	NELAP	0.137	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
3,3'-Dichlorobenzidine	NELAP	0.244	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Bromophenyl phenyl ether	NELAP	0.112	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Chloro-3-methylphenol	NELAP	0.134	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Chloroaniline	NELAP	0.148	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Chlorophenyl phenyl ether	NELAP	0.121	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Nitroaniline	NELAP	0.111	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
4-Nitrophenol	NELAP	0.12	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Acenaphthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Acenaphthylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Benzo(a)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Benzo(a)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Benzo(b)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Benzo(g,h,i)perylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Benzo(k)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Bis(2-chloroethoxy)methane	NELAP	0.143	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Bis(2-chloroethyl)ether	NELAP	0.174	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-002

Client Sample ID: 1467V-3-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.123	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Carbazole		0.149	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Chrysene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Dibenzo(a,h)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Dibenzofuran	NELAP	0.154	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Diethyl phthalate	NELAP	0.117	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Dimethyl phthalate	NELAP	0.111	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Di-n-butyl phthalate	NELAP	0.126	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Di-n-octyl phthalate	NELAP	0.127	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Fluorene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Hexachlorobenzene	NELAP	0.12	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Hexachlorobutadiene	NELAP	0.189	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Hexachlorocyclopentadiene	NELAP	0.125	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Hexachloroethane	NELAP	0.204	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Isophorone	NELAP	0.144	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
m,p-Cresol	NELAP	0.154	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Naphthalene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Nitrobenzene	NELAP	0.153	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
N-Nitroso-di-n-propylamine	NELAP	0.134	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
N-Nitrosodiphenylamine	NELAP	0.112	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
o-Cresol	NELAP	0.144	0.611		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Pentachlorophenol	NELAP	0.807	2.44		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Phenanthrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Phenol	NELAP	0.142	0.428		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	08/30/2013 22:58	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		65.8	%REC	1	08/30/2013 22:58	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		54.9	%REC	1	08/30/2013 22:58	91492
Surr: 2-Fluorophenol		0	30.5-99		61.5	%REC	1	08/30/2013 22:58	91492
Surr: Nitrobenzene-d5		0	34.1-101		71	%REC	1	08/30/2013 22:58	91492
Surr: Phenol-d5		0	34.9-110		62.3	%REC	1	08/30/2013 22:58	91492
Surr: p-Terphenyl-d14		0	41.7-124		65	%REC	1	08/30/2013 22:58	91492

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
2-Butanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
2-Hexanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
4-Methyl-2-pentanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Acetone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 2:27	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081488

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081488-002

Client Sample ID: 1467V-3-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 2:27	91591
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 2:27	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/04/2013 2:27	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Vinyl acetate	NELAP	0.0157	0.039		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 2:27	91591
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 2:27	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.3	%REC	1	09/04/2013 2:27	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		105.1	%REC	1	09/04/2013 2:27	91591
Surr: Dibromofluoromethane		0	77.7-120		100.9	%REC	1	09/04/2013 2:27	91591
Surr: Toluene-d8		0	86-116		100.5	%REC	1	09/04/2013 2:27	91591



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Pingree Drive Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____		COC No.: <u>1</u> of <u>1</u> Lab Job No.: _____ Sample Temp: <u>13081488</u> <u>3.0, ice</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.						
		ANALYSES				
Lab ID	Sample ID	Sample Date	Sample Time	Matrix		
13081488-201	1467V-3-B01-1	8-26-13	10:57 AM	S	VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> BETX & MTBE <input type="checkbox"/> PNAs <input type="checkbox"/> Pesticides <input type="checkbox"/> PCBs <input type="checkbox"/> * Total Metals <input checked="" type="checkbox"/> SPLP/** TCLP Metals <input checked="" type="checkbox"/> pH <input checked="" type="checkbox"/> % Solids <input checked="" type="checkbox"/> Waste Characterization <input type="checkbox"/>	
	1467V-3-B01-2	8-26-13	11:04 AM	S	VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> BETX & MTBE <input type="checkbox"/> PNAs <input type="checkbox"/> Pesticides <input type="checkbox"/> PCBs <input type="checkbox"/> * Total Metals <input checked="" type="checkbox"/> SPLP/** TCLP Metals <input checked="" type="checkbox"/> pH <input checked="" type="checkbox"/> % Solids <input checked="" type="checkbox"/> Waste Characterization <input type="checkbox"/>	
Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other						
Comments 0-5 5-10						
Relinquished by: <u>[Signature]</u> Date/Time: <u>8-26-13 4:20 PM</u> Received by: <u>[Signature]</u> Date/Time: <u>8-26-13 6:30 PM</u>						
Relinquished by: <u>[Signature]</u> Date/Time: <u>8-28-13 06:30 AM</u> Received by: <u>[Signature]</u> Date/Time: <u>8/28/13 6:30 AM</u>						
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/29/13 8:40</u> Received by: <u>[Signature]</u> Date/Time: <u>8/29/13 21:30</u>						



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2401 US 20

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08854 Longitude: -88.45897

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08854 Longitude: -88.45897

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-4-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 1467V-4. SEE FIGURE 2 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081489

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-4

Butlers Restaurant/Vacant Units/Crossroads Veterinary Clinic/Choice-4 Communications/Vacant Unit/Colorvision Services/Carpe Diem Salon/Vacant Land

Sample ID	1467V-4-B01-1	1467V-4-B01-2	1467V-4-B02-1	1467V-4-B02-1 DUF	1467V-4-B02-2	¹ Most Stringent MAC ² Outside a Populated Area MAC ³ Populated non-Metropolitan Statistical Area MAC ⁴ Within Chicago Corporate Limits MAC ⁵ Metropolitan Statistical Area MAC ⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	0-5	5-10	
Sample Date	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	
PID	0	0	0	0	0	
Sample pH	7.68	7.86	8.31	8.17	8.24	
Matrix	Soil	Soil	Soil	Soil	Soil	
No Contaminants of Concern Noted.						

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081489

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-001

Client Sample ID: 1467V-4-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 11:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.3	%	1	08/29/2013 13:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.7	%	1	08/29/2013 13:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.68		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.136	mg/L	1	09/06/2013 17:26	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0585	mg/L	1	09/04/2013 9:13	91575
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 9:13	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 9:13	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 9:13	91575
Chromium	NELAP	0.004	0.01	J	0.0079	mg/L	1	09/04/2013 9:13	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 9:13	91575
Iron	NELAP	0.007	0.02	X	6.23	mg/L	1	09/04/2013 9:13	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 9:13	91575
Manganese	NELAP	0.0016	0.005		0.0434	mg/L	1	09/04/2013 9:13	91575
Nickel	NELAP	0.0033	0.01	J	0.0062	mg/L	1	09/04/2013 9:13	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 9:13	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 9:13	91575
Zinc	NELAP	0.0021	0.01		0.0211	mg/L	1	09/04/2013 9:13	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 11:40	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 12:26	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:23	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		10500	mg/Kg-dry	1	08/30/2013 11:18	91487
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 20:20	91523
Arsenic	NELAP	1.2	2.4		6.67	mg/Kg-dry	1	08/30/2013 11:18	91487
Barium	NELAP	0.24	0.48		54.4	mg/Kg-dry	1	08/30/2013 11:18	91487
Beryllium	NELAP	0.05	0.1		0.56	mg/Kg-dry	1	08/30/2013 11:18	91487
Boron	NELAP	0.96	1.92		9.59	mg/Kg-dry	1	08/30/2013 11:18	91487
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 11:18	91487
Calcium	NELAP	2.4	4.81		25300	mg/Kg-dry	1	08/30/2013 11:18	91487
Chromium	NELAP	0.48	0.96	X	16.8	mg/Kg-dry	1	08/30/2013 11:18	91487
Cobalt	NELAP	0.48	0.96		6.16	mg/Kg-dry	1	08/30/2013 11:18	91487
Copper	NELAP	0.48	0.96		15.6	mg/Kg-dry	1	08/30/2013 11:18	91487
Iron	NELAP	0.96	1.92	X	16500	mg/Kg-dry	1	08/30/2013 11:18	91487
Lead	NELAP	1.92	3.85		8.68	mg/Kg-dry	1	08/30/2013 11:18	91487
Magnesium	NELAP	0.48	0.96		15500	mg/Kg-dry	1	08/30/2013 11:18	91487
Manganese	NELAP	0.24	0.48		388	mg/Kg-dry	1	08/30/2013 11:18	91487
Nickel	NELAP	0.48	0.96		18	mg/Kg-dry	1	08/30/2013 11:18	91487
Potassium	NELAP	4.81	9.62		1800	mg/Kg-dry	1	08/30/2013 11:18	91487
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 11:18	91487
Sodium	NELAP	2.4	4.81		1700	mg/Kg-dry	1	08/30/2013 11:18	91487

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-001

Client Sample ID: 1467V-4-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 11:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 11:18	91487
Vanadium	NELAP	0.48	0.96		25.1	mg/Kg-dry	1	08/30/2013 11:18	91487
Zinc	NELAP	0.48	0.96		36.7	mg/Kg-dry	1	08/30/2013 11:18	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 13:12	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.024	mg/Kg-dry	1	08/30/2013 14:09	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.153	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
1,2-Dichlorobenzene	NELAP	0.182	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
1,3-Dichlorobenzene	NELAP	0.193	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
1,4-Dichlorobenzene	NELAP	0.182	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4,5-Trichlorophenol	NELAP	0.109	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4,6-Trichlorophenol	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4-Dichlorophenol	NELAP	0.139	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4-Dimethylphenol	NELAP	0.146	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4-Dinitrophenol	NELAP	0.123	1.15		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,4-Dinitrotoluene	NELAP	0.119	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2,6-Dinitrotoluene	NELAP	0.124	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2-Chloronaphthalene	NELAP	0.138	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2-Chlorophenol	NELAP	0.146	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2-Methylnaphthalene	NELAP	0.137	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2-Nitroaniline	NELAP	0.104	1.15		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
2-Nitrophenol	NELAP	0.129	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
3,3'-Dichlorobenzidine	NELAP	0.229	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
3-Nitroaniline	NELAP	0.094	1.15		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4,6-Dinitro-2-methylphenol	NELAP	0.124	1.15		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Bromophenyl phenyl ether	NELAP	0.106	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Chloro-3-methylphenol	NELAP	0.126	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Chloroaniline	NELAP	0.139	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Chlorophenyl phenyl ether	NELAP	0.114	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Nitroaniline	NELAP	0.104	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
4-Nitrophenol	NELAP	0.112	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Bis(2-chloroethoxy)methane	NELAP	0.134	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Bis(2-chloroethyl)ether	NELAP	0.163	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Bis(2-chloroisopropyl)ether	NELAP	0.131	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.134	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Butyl benzyl phthalate	NELAP	0.116	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Carbazole		0.14	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492

Client: Andrews Engineering, Inc.

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Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-001

Client Sample ID: 1467V-4-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 11:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Dibenzofuran	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Diethyl phthalate	NELAP	0.11	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Dimethyl phthalate	NELAP	0.104	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Di-n-butyl phthalate	NELAP	0.118	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Di-n-octyl phthalate	NELAP	0.119	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Hexachlorobenzene	NELAP	0.112	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Hexachlorobutadiene	NELAP	0.178	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Hexachlorocyclopentadiene	NELAP	0.117	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Hexachloroethane	NELAP	0.192	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Isophorone	NELAP	0.135	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
m,p-Cresol	NELAP	0.145	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Nitrobenzene	NELAP	0.143	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
N-Nitroso-di-n-propylamine	NELAP	0.126	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
N-Nitrosodiphenylamine	NELAP	0.106	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
o-Cresol	NELAP	0.135	0.574		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Pentachlorophenol	NELAP	0.757	2.29		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Phenol	NELAP	0.133	0.402		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:08	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		65.2	%REC	1	08/31/2013 11:08	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		57.1	%REC	1	08/31/2013 11:08	91492
Surr: 2-Fluorophenol		0	30.5-99		55	%REC	1	08/31/2013 11:08	91492
Surr: Nitrobenzene-d5		0	34.1-101		68.2	%REC	1	08/31/2013 11:08	91492
Surr: Phenol-d5		0	34.9-110		61.9	%REC	1	08/31/2013 11:08	91492
Surr: p-Terphenyl-d14		0	41.7-124		65.3	%REC	1	08/31/2013 11:08	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
2-Butanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
2-Hexanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
4-Methyl-2-pentanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Acetone	NELAP	0.0073	0.037	J	0.027	mg/Kg-dry	1	09/04/2013 2:54	91591
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-001

Client Sample ID: 1467V-4-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 11:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
m,p-Xylenes	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 2:54	91591
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Vinyl acetate	NELAP	0.0146	0.037		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Xylenes, Total	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 2:54	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.6	%REC	1	09/04/2013 2:54	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		108.5	%REC	1	09/04/2013 2:54	91591
Surr: Dibromofluoromethane		0	77.7-120		101.2	%REC	1	09/04/2013 2:54	91591
Surr: Toluene-d8		0	86-116		102.8	%REC	1	09/04/2013 2:54	91591

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-002

Client Sample ID: 1467V-4-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.3	%	1	08/29/2013 13:44	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.7	%	1	08/29/2013 13:44	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.86		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0886	mg/L	1	09/06/2013 17:30	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0628	mg/L	1	09/04/2013 9:24	91575
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/04/2013 9:24	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 9:24	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 9:24	91575
Chromium	NELAP	0.004	0.01	J	0.0094	mg/L	1	09/04/2013 9:24	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 9:24	91575
Iron	NELAP	0.007	0.02	SX	8.99	mg/L	1	09/04/2013 9:24	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 9:24	91575
Manganese	NELAP	0.0016	0.005		0.0442	mg/L	1	09/04/2013 9:24	91575
Nickel	NELAP	0.0033	0.01	J	0.0072	mg/L	1	09/04/2013 9:24	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 9:24	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 9:24	91575
Zinc	NELAP	0.0021	0.01		0.0329	mg/L	1	09/04/2013 9:24	91575
<i>MS QC limits for Fe are not applicable due to high sample/spike ratio.</i>									
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 11:44	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 12:30	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:30	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5	S	7150	mg/Kg-dry	1	08/30/2013 11:24	91487
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/03/2013 20:31	91523
Arsenic	NELAP	1.25	2.5		4.44	mg/Kg-dry	1	08/30/2013 11:24	91487
Barium	NELAP	0.25	0.5		33.1	mg/Kg-dry	1	08/30/2013 11:24	91487
Beryllium	NELAP	0.05	0.1		0.4	mg/Kg-dry	1	08/30/2013 11:24	91487
Boron	NELAP	1	2		8.71	mg/Kg-dry	1	08/30/2013 11:24	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 11:24	91487
Calcium	NELAP	2.5	5	S	42900	mg/Kg-dry	1	08/30/2013 11:24	91487
Chromium	NELAP	0.5	1		11.4	mg/Kg-dry	1	08/30/2013 11:24	91487
Cobalt	NELAP	0.5	1		5.32	mg/Kg-dry	1	08/30/2013 11:24	91487
Copper	NELAP	0.5	1		11.7	mg/Kg-dry	1	08/30/2013 11:24	91487
Iron	NELAP	1	2	S	12400	mg/Kg-dry	1	08/30/2013 11:24	91487
Lead	NELAP	2	4		5.63	mg/Kg-dry	1	08/30/2013 11:24	91487
Magnesium	NELAP	0.5	1	S	25600	mg/Kg-dry	1	08/30/2013 11:24	91487
Manganese	NELAP	0.25	0.5	S	324	mg/Kg-dry	1	08/30/2013 11:24	91487
Nickel	NELAP	0.5	1		13.4	mg/Kg-dry	1	08/30/2013 11:24	91487
Potassium	NELAP	24.5	49	S	1630	mg/Kg-dry	5	09/03/2013 8:35	91533
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	08/30/2013 11:24	91487
Sodium	NELAP	2.5	5	S	1130	mg/Kg-dry	1	08/30/2013 11:24	91487

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-002

Client Sample ID: 1467V-4-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	08/30/2013 11:24	91487
Vanadium	NELAP	0.5	1		18.4	mg/Kg-dry	1	08/30/2013 11:24	91487
Zinc	NELAP	0.5	1		28.3	mg/Kg-dry	1	08/30/2013 11:24	91487
<i>MS QC limits for K are not applicable due to high sample/spike ratio.</i>									
<i>MS QC limits for Al, Ca, Fe, Mg, Mn, and Na are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588	S	< 0.588	mg/Kg-dry	1	08/30/2013 13:16	91496
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.011	mg/Kg-dry	1	08/30/2013 14:11	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.151	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
1,2-Dichlorobenzene	NELAP	0.181	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
1,3-Dichlorobenzene	NELAP	0.191	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
1,4-Dichlorobenzene	NELAP	0.181	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4,5-Trichlorophenol	NELAP	0.108	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4,6-Trichlorophenol	NELAP	0.143	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4-Dichlorophenol	NELAP	0.138	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4-Dimethylphenol	NELAP	0.145	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4-Dinitrophenol	NELAP	0.122	1.14		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,4-Dinitrotoluene	NELAP	0.118	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2,6-Dinitrotoluene	NELAP	0.123	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2-Chloronaphthalene	NELAP	0.137	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2-Chlorophenol	NELAP	0.145	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2-Methylnaphthalene	NELAP	0.136	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2-Nitroaniline	NELAP	0.104	1.14		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
2-Nitrophenol	NELAP	0.128	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
3,3'-Dichlorobenzidine	NELAP	0.228	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
3-Nitroaniline	NELAP	0.093	1.14		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4,6-Dinitro-2-methylphenol	NELAP	0.123	1.14		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Bromophenyl phenyl ether	NELAP	0.105	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Chloro-3-methylphenol	NELAP	0.125	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Chloroaniline	NELAP	0.138	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Chlorophenyl phenyl ether	NELAP	0.113	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Nitroaniline	NELAP	0.104	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
4-Nitrophenol	NELAP	0.112	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Bis(2-chloroethoxy)methane	NELAP	0.133	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Bis(2-chloroethyl)ether	NELAP	0.162	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Bis(2-chloroisopropyl)ether	NELAP	0.13	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-002

Client Sample ID: 1467V-4-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.133	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Butyl benzyl phthalate	NELAP	0.115	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Carbazole		0.139	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Dibenzofuran	NELAP	0.143	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Diethyl phthalate	NELAP	0.109	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Dimethyl phthalate	NELAP	0.104	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Di-n-butyl phthalate	NELAP	0.117	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Di-n-octyl phthalate	NELAP	0.118	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Hexachlorobenzene	NELAP	0.112	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Hexachlorobutadiene	NELAP	0.177	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Hexachlorocyclopentadiene	NELAP	0.116	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Hexachloroethane	NELAP	0.19	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Isophorone	NELAP	0.134	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
m,p-Cresol	NELAP	0.143	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Nitrobenzene	NELAP	0.142	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
N-Nitroso-di-n-propylamine	NELAP	0.125	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
N-Nitrosodiphenylamine	NELAP	0.105	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
o-Cresol	NELAP	0.134	0.569		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Pentachlorophenol	NELAP	0.752	2.28		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Phenol	NELAP	0.132	0.399		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/30/2013 23:30	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		65.6	%REC	1	08/30/2013 23:30	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		53.7	%REC	1	08/30/2013 23:30	91492
Surr: 2-Fluorophenol		0	30.5-99		57	%REC	1	08/30/2013 23:30	91492
Surr: Nitrobenzene-d5		0	34.1-101		60.2	%REC	1	08/30/2013 23:30	91492
Surr: Phenol-d5		0	34.9-110		59.5	%REC	1	08/30/2013 23:30	91492
Surr: p-Terphenyl-d14		0	41.7-124		64.2	%REC	1	08/30/2013 23:30	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,1,2-Trichloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,1-Dichloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,1-Dichloroethene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,2-Dichloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,2-Dichloropropane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
1,3-Dichloropropene, Total		0.0014	0.006		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
2-Butanone	NELAP	0.0142	0.071		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
2-Hexanone	NELAP	0.0142	0.071		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
4-Methyl-2-pentanone	NELAP	0.0142	0.071		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Acetone	NELAP	0.0142	0.071		ND	mg/Kg-dry	1	09/04/2013 3:20	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-002

Client Sample ID: 1467V-4-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0007	0.001		0.004	mg/Kg-dry	1	09/04/2013 3:20	91591
Bromodichloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Bromoform	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Bromomethane	NELAP	0.0028	0.014		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Carbon disulfide	NELAP	0.0043	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Carbon tetrachloride	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Chlorobenzene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Chloroethane	NELAP	0.0028	0.014		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Chloroform	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Chloromethane	NELAP	0.0028	0.014		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
cis-1,2-Dichloroethene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
cis-1,3-Dichloropropene	NELAP	0.0014	0.006		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Dibromochloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Ethylbenzene	NELAP	0.0014	0.007	J	0.002	mg/Kg-dry	1	09/04/2013 3:20	91591
m,p-Xylenes	NELAP	0.0014	0.007	J	0.004	mg/Kg-dry	1	09/04/2013 3:20	91591
Methyl tert-butyl ether	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Methylene chloride	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
o-Xylene	NELAP	0.0014	0.007	J	0.001	mg/Kg-dry	1	09/04/2013 3:20	91591
Styrene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Tetrachloroethene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Toluene	NELAP	0.0014	0.007		0.008	mg/Kg-dry	1	09/04/2013 3:20	91591
trans-1,2-Dichloroethene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
trans-1,3-Dichloropropene	NELAP	0.0014	0.006		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Trichloroethene	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Vinyl acetate	NELAP	0.0284	0.071		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Vinyl chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 3:20	91591
Xylenes, Total	NELAP	0.0014	0.007	J	0.005	mg/Kg-dry	1	09/04/2013 3:20	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		114.5	%REC	1	09/04/2013 3:20	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		102.7	%REC	1	09/04/2013 3:20	91591
Surr: Dibromofluoromethane		0	77.7-120		101.3	%REC	1	09/04/2013 3:20	91591
Surr: Toluene-d8		0	86-116		100.9	%REC	1	09/04/2013 3:20	91591

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-003

Client Sample ID: 1467V-4-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14	%	1	08/29/2013 13:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86	%	1	08/29/2013 13:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.31		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0942	mg/L	1	09/06/2013 17:33	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.084	mg/L	1	09/04/2013 9:47	91575
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/04/2013 9:47	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 9:47	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 9:47	91575
Chromium	NELAP	0.004	0.01		0.0129	mg/L	1	09/04/2013 9:47	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 9:47	91575
Iron	NELAP	0.007	0.02	X	11.2	mg/L	1	09/04/2013 9:47	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 9:47	91575
Manganese	NELAP	0.0016	0.005		0.0939	mg/L	1	09/04/2013 9:47	91575
Nickel	NELAP	0.0033	0.01		0.0103	mg/L	1	09/04/2013 9:47	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 9:47	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 9:47	91575
Zinc	NELAP	0.0021	0.01		0.0316	mg/L	1	09/04/2013 9:47	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 11:48	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 12:33	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:32	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		10900	mg/Kg-dry	1	08/30/2013 11:50	91487
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 20:35	91523
Arsenic	NELAP	1.23	2.45		7.57	mg/Kg-dry	1	08/30/2013 11:50	91487
Barium	NELAP	0.25	0.49		80	mg/Kg-dry	1	08/30/2013 11:50	91487
Beryllium	NELAP	0.05	0.1		0.61	mg/Kg-dry	1	08/30/2013 11:50	91487
Boron	NELAP	0.98	1.96		7.76	mg/Kg-dry	1	08/30/2013 11:50	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 11:50	91487
Calcium	NELAP	2.45	4.9		29800	mg/Kg-dry	1	08/30/2013 11:50	91487
Chromium	NELAP	0.49	0.98	X	17.4	mg/Kg-dry	1	08/30/2013 11:50	91487
Cobalt	NELAP	0.49	0.98		6.37	mg/Kg-dry	1	08/30/2013 11:50	91487
Copper	NELAP	0.49	0.98		16.4	mg/Kg-dry	1	08/30/2013 11:50	91487
Iron	NELAP	0.98	1.96	X	19100	mg/Kg-dry	1	08/30/2013 11:50	91487
Lead	NELAP	1.96	3.92		14.2	mg/Kg-dry	1	08/30/2013 11:50	91487
Magnesium	NELAP	0.49	0.98		16700	mg/Kg-dry	1	08/30/2013 11:50	91487
Manganese	NELAP	0.25	0.49		449	mg/Kg-dry	1	08/30/2013 11:50	91487
Nickel	NELAP	0.49	0.98		16.7	mg/Kg-dry	1	08/30/2013 11:50	91487
Potassium	NELAP	4.9	9.8		1520	mg/Kg-dry	1	08/30/2013 11:50	91487
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	08/30/2013 11:50	91487
Sodium	NELAP	2.45	4.9		674	mg/Kg-dry	1	08/30/2013 11:50	91487

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-003

Client Sample ID: 1467V-4-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	08/30/2013 11:50	91487
Vanadium	NELAP	0.49	0.98		29	mg/Kg-dry	1	08/30/2013 11:50	91487
Zinc	NELAP	0.49	0.98		46.1	mg/Kg-dry	1	08/30/2013 11:50	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	08/30/2013 13:30	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.029	mg/Kg-dry	1	08/30/2013 14:22	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
1,2-Dichlorobenzene	NELAP	0.185	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
1,3-Dichlorobenzene	NELAP	0.195	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
1,4-Dichlorobenzene	NELAP	0.185	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4,5-Trichlorophenol	NELAP	0.11	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4,6-Trichlorophenol	NELAP	0.146	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4-Dichlorophenol	NELAP	0.14	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4-Dimethylphenol	NELAP	0.147	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,4-Dinitrotoluene	NELAP	0.121	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2,6-Dinitrotoluene	NELAP	0.125	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2-Chloronaphthalene	NELAP	0.139	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2-Chlorophenol	NELAP	0.147	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2-Methylnaphthalene	NELAP	0.138	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2-Nitroaniline	NELAP	0.106	1.16		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
2-Nitrophenol	NELAP	0.13	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
3,3'-Dichlorobenzidine	NELAP	0.232	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Bromophenyl phenyl ether	NELAP	0.107	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Chloro-3-methylphenol	NELAP	0.128	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Chloroaniline	NELAP	0.14	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Chlorophenyl phenyl ether	NELAP	0.115	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Nitroaniline	NELAP	0.106	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
4-Nitrophenol	NELAP	0.114	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Bis(2-chloroethoxy)methane	NELAP	0.136	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Bis(2-chloroethyl)ether	NELAP	0.165	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Butyl benzyl phthalate	NELAP	0.117	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Carbazole		0.142	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-003

Client Sample ID: 1467V-4-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Dibenzofuran	NELAP	0.146	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Diethyl phthalate	NELAP	0.111	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Dimethyl phthalate	NELAP	0.106	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Di-n-butyl phthalate	NELAP	0.12	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Di-n-octyl phthalate	NELAP	0.121	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Hexachlorobenzene	NELAP	0.114	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Hexachlorobutadiene	NELAP	0.18	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Hexachlorocyclopentadiene	NELAP	0.118	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Hexachloroethane	NELAP	0.194	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Isophorone	NELAP	0.137	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
m,p-Cresol	NELAP	0.146	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Nitrobenzene	NELAP	0.145	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
N-Nitroso-di-n-propylamine	NELAP	0.128	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
N-Nitrosodiphenylamine	NELAP	0.107	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
o-Cresol	NELAP	0.137	0.58		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Pentachlorophenol	NELAP	0.766	2.32		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Phenol	NELAP	0.135	0.406		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 11:41	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		61.8	%REC	1	08/31/2013 11:41	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		52.3	%REC	1	08/31/2013 11:41	91492
Surr: 2-Fluorophenol		0	30.5-99		55.6	%REC	1	08/31/2013 11:41	91492
Surr: Nitrobenzene-d5		0	34.1-101		63.2	%REC	1	08/31/2013 11:41	91492
Surr: Phenol-d5		0	34.9-110		60.2	%REC	1	08/31/2013 11:41	91492
Surr: p-Terphenyl-d14		0	41.7-124		65.3	%REC	1	08/31/2013 11:41	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
2-Butanone	NELAP	0.0079	0.04		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
2-Hexanone	NELAP	0.0079	0.04		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
4-Methyl-2-pentanone	NELAP	0.0079	0.04		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Acetone	NELAP	0.0079	0.04		0.051	mg/Kg-dry	1	09/04/2013 3:46	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 3:46	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-003

Client Sample ID: 1467V-4-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 3:46	91591
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 3:46	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Toluene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 3:46	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Vinyl acetate	NELAP	0.0158	0.04		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 3:46	91591
Xylenes, Total	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 3:46	91591
Surr: 1,2-Dichloroethane-d4			0 72.2-131		113.2	%REC	1	09/04/2013 3:46	91591
Surr: 4-Bromofluorobenzene			0 82.1-116		107.6	%REC	1	09/04/2013 3:46	91591
Surr: Dibromofluoromethane			0 77.7-120		103.4	%REC	1	09/04/2013 3:46	91591
Surr: Toluene-d8			0 86-116		101.7	%REC	1	09/04/2013 3:46	91591

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-004

Client Sample ID: 1467V-4-B02-1 DUP

Matrix: SOLID

Collection Date: 08/26/2013 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14	%	1	08/29/2013 13:45	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86	%	1	08/29/2013 13:45	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.17		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0709	mg/L	1	09/06/2013 17:37	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0826	mg/L	1	09/04/2013 9:50	91575
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/04/2013 9:50	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 9:50	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 9:50	91575
Chromium	NELAP	0.004	0.01		0.0125	mg/L	1	09/04/2013 9:50	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 9:50	91575
Iron	NELAP	0.007	0.02	X	11.3	mg/L	1	09/04/2013 9:50	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 9:50	91575
Manganese	NELAP	0.0016	0.005		0.102	mg/L	1	09/04/2013 9:50	91575
Nickel	NELAP	0.0033	0.01	J	0.0098	mg/L	1	09/04/2013 9:50	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 9:50	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 9:50	91575
Zinc	NELAP	0.0021	0.01		0.0341	mg/L	1	09/04/2013 9:50	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 11:55	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 13:59	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:34	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		8810	mg/Kg-dry	1	08/30/2013 11:56	91487
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 20:38	91523
Arsenic	NELAP	1.25	2.5		5.77	mg/Kg-dry	1	08/30/2013 11:56	91487
Barium	NELAP	0.25	0.5		67.8	mg/Kg-dry	1	08/30/2013 11:56	91487
Beryllium	NELAP	0.05	0.1		0.44	mg/Kg-dry	1	08/30/2013 11:56	91487
Boron	NELAP	1	2		7.4	mg/Kg-dry	1	08/30/2013 11:56	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 11:56	91487
Calcium	NELAP	2.5	5		50000	mg/Kg-dry	1	08/30/2013 11:56	91487
Chromium	NELAP	0.5	1		12.9	mg/Kg-dry	1	08/30/2013 11:56	91487
Cobalt	NELAP	0.5	1		5	mg/Kg-dry	1	08/30/2013 11:56	91487
Copper	NELAP	0.5	1		13	mg/Kg-dry	1	08/30/2013 11:56	91487
Iron	NELAP	1	2		13800	mg/Kg-dry	1	08/30/2013 11:56	91487
Lead	NELAP	2	4		9.24	mg/Kg-dry	1	08/30/2013 11:56	91487
Magnesium	NELAP	0.5	1		27000	mg/Kg-dry	1	08/30/2013 11:56	91487
Manganese	NELAP	0.25	0.5		383	mg/Kg-dry	1	08/30/2013 11:56	91487
Nickel	NELAP	0.5	1		12.6	mg/Kg-dry	1	08/30/2013 11:56	91487
Potassium	NELAP	5	10		1390	mg/Kg-dry	1	08/30/2013 11:56	91487
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	08/30/2013 11:56	91487
Sodium	NELAP	2.5	5		513	mg/Kg-dry	1	08/30/2013 11:56	91487

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-004

Client Sample ID: 1467V-4-B02-1 DUP

Matrix: SOLID

Collection Date: 08/26/2013 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	08/30/2013 11:56	91487
Vanadium	NELAP	0.5	1		23.9	mg/Kg-dry	1	08/30/2013 11:56	91487
Zinc	NELAP	0.5	1		31.6	mg/Kg-dry	1	08/30/2013 11:56	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	08/30/2013 13:33	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.014	mg/Kg-dry	1	08/30/2013 14:24	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.155	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
1,2-Dichlorobenzene	NELAP	0.185	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
1,3-Dichlorobenzene	NELAP	0.195	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
1,4-Dichlorobenzene	NELAP	0.185	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4,5-Trichlorophenol	NELAP	0.111	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4,6-Trichlorophenol	NELAP	0.147	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4-Dichlorophenol	NELAP	0.141	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4-Dimethylphenol	NELAP	0.148	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,4-Dinitrotoluene	NELAP	0.121	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2,6-Dinitrotoluene	NELAP	0.126	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2-Chloronaphthalene	NELAP	0.14	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2-Chlorophenol	NELAP	0.148	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2-Methylnaphthalene	NELAP	0.138	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2-Nitroaniline	NELAP	0.106	1.16		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
2-Nitrophenol	NELAP	0.13	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
3,3'-Dichlorobenzidine	NELAP	0.233	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4,6-Dinitro-2-methylphenol	NELAP	0.126	1.16		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Bromophenyl phenyl ether	NELAP	0.107	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Chloro-3-methylphenol	NELAP	0.128	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Chloroaniline	NELAP	0.141	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Chlorophenyl phenyl ether	NELAP	0.115	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Nitroaniline	NELAP	0.106	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
4-Nitrophenol	NELAP	0.114	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Acenaphthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Acenaphthylene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Benzo(a)anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Benzo(a)pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Benzo(b)fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Benzo(k)fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Bis(2-chloroethoxy)methane	NELAP	0.136	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Bis(2-chloroethyl)ether	NELAP	0.165	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Bis(2-chloroisopropyl)ether	NELAP	0.133	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Butyl benzyl phthalate	NELAP	0.118	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Carbazole		0.142	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-004

Client Sample ID: 1467V-4-B02-1 DUP

Matrix: SOLID

Collection Date: 08/26/2013 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Dibenzofuran	NELAP	0.147	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Diethyl phthalate	NELAP	0.112	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Dimethyl phthalate	NELAP	0.106	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Di-n-butyl phthalate	NELAP	0.12	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Di-n-octyl phthalate	NELAP	0.121	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Fluoranthene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Fluorene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Hexachlorobenzene	NELAP	0.114	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Hexachlorobutadiene	NELAP	0.18	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Hexachlorocyclopentadiene	NELAP	0.119	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Hexachloroethane	NELAP	0.194	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Isophorone	NELAP	0.137	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
m,p-Cresol	NELAP	0.147	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Naphthalene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Nitrobenzene	NELAP	0.145	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
N-Nitroso-di-n-propylamine	NELAP	0.128	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
N-Nitrosodiphenylamine	NELAP	0.107	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
o-Cresol	NELAP	0.137	0.582		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Pentachlorophenol	NELAP	0.768	2.33		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Phenanthrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Phenol	NELAP	0.135	0.407		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Pyrene	NELAP	0.019	0.04		ND	mg/Kg-dry	1	08/31/2013 0:03	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.2	%REC	1	08/31/2013 0:03	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		52.2	%REC	1	08/31/2013 0:03	91492
Surr: 2-Fluorophenol		0	30.5-99		59.4	%REC	1	08/31/2013 0:03	91492
Surr: Nitrobenzene-d5		0	34.1-101		65.3	%REC	1	08/31/2013 0:03	91492
Surr: Phenol-d5		0	34.9-110		64.1	%REC	1	08/31/2013 0:03	91492
Surr: p-Terphenyl-d14		0	41.7-124		67.4	%REC	1	08/31/2013 0:03	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
1,3-Dichloropropane, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
2-Butanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
2-Hexanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
4-Methyl-2-pentanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Acetone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Benzene	NELAP	0.0005	0.001		0.002	mg/Kg-dry	1	09/04/2013 4:13	91591
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-004

Client Sample ID: 1467V-4-B02-1 DUP

Matrix: SOLID

Collection Date: 08/26/2013 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Ethylbenzene	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/04/2013 4:13	91591
m,p-Xylenes	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/04/2013 4:13	91591
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Toluene	NELAP	0.0009	0.005		0.005	mg/Kg-dry	1	09/04/2013 4:13	91591
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Vinyl acetate	NELAP	0.018	0.045		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 4:13	91591
Xylenes, Total	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/04/2013 4:13	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		114	%REC	1	09/04/2013 4:13	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		104.4	%REC	1	09/04/2013 4:13	91591
Surr: Dibromofluoromethane		0	77.7-120		100.9	%REC	1	09/04/2013 4:13	91591
Surr: Toluene-d8		0	86-116		100.8	%REC	1	09/04/2013 4:13	91591

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-005

Client Sample ID: 1467V-4-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13.5	%	1	08/29/2013 13:46	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86.5	%	1	08/29/2013 13:46	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.24		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.151	mg/L	1	09/06/2013 17:41	91654
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 17:41	91654
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.107	mg/L	1	09/04/2013 9:54	91575
Beryllium	NELAP	0.0003	0.001	J	0.0005	mg/L	1	09/04/2013 9:54	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 9:54	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 9:54	91575
Chromium	NELAP	0.004	0.01		0.0172	mg/L	1	09/04/2013 9:54	91575
Cobalt	NELAP	0.0022	0.01	J	0.0038	mg/L	1	09/04/2013 9:54	91575
Iron	NELAP	0.007	0.02	SX	13.6	mg/L	1	09/04/2013 9:54	91575
Lead	NELAP	0.006	0.007	X	0.0087	mg/L	1	09/04/2013 9:54	91575
Manganese	NELAP	0.0016	0.005		0.128	mg/L	1	09/04/2013 9:54	91575
Nickel	NELAP	0.0033	0.01		0.0135	mg/L	1	09/04/2013 9:54	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 9:54	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 9:54	91575
Zinc	NELAP	0.0021	0.01		0.0457	mg/L	1	09/04/2013 9:54	91575
<i>MS QC limits for Fe are not applicable due to high sample/spike ratio.</i>									
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 11:59	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 12:47	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:41	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		10500	mg/Kg-dry	1	08/30/2013 12:02	91487
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 20:42	91523
Arsenic	NELAP	1.18	2.36		5.42	mg/Kg-dry	1	08/30/2013 12:02	91487
Barium	NELAP	0.24	0.47		76.9	mg/Kg-dry	1	08/30/2013 12:02	91487
Beryllium	NELAP	0.05	0.09		0.55	mg/Kg-dry	1	08/30/2013 12:02	91487
Boron	NELAP	0.94	1.89		7.66	mg/Kg-dry	1	08/30/2013 12:02	91487
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	08/30/2013 12:02	91487
Calcium	NELAP	2.36	4.72		33200	mg/Kg-dry	1	08/30/2013 12:02	91487
Chromium	NELAP	0.47	0.94	X	16	mg/Kg-dry	1	08/30/2013 12:02	91487
Cobalt	NELAP	0.47	0.94		7.5	mg/Kg-dry	1	08/30/2013 12:02	91487
Copper	NELAP	0.47	0.94		16.1	mg/Kg-dry	1	08/30/2013 12:02	91487
Iron	NELAP	0.94	1.89	X	16000	mg/Kg-dry	1	08/30/2013 12:02	91487
Lead	NELAP	1.89	3.77		11.7	mg/Kg-dry	1	08/30/2013 12:02	91487
Magnesium	NELAP	0.47	0.94		16100	mg/Kg-dry	1	08/30/2013 12:02	91487
Manganese	NELAP	0.24	0.47		333	mg/Kg-dry	1	08/30/2013 12:02	91487
Nickel	NELAP	0.47	0.94		16	mg/Kg-dry	1	08/30/2013 12:02	91487
Potassium	NELAP	4.72	9.43		1570	mg/Kg-dry	1	08/30/2013 12:02	91487
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	08/30/2013 12:02	91487

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-005

Client Sample ID: 1467V-4-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.36	4.72		508	mg/Kg-dry	1	08/30/2013 12:02	91487
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	08/30/2013 12:02	91487
Vanadium	NELAP	0.47	0.94		24.7	mg/Kg-dry	1	08/30/2013 12:02	91487
Zinc	NELAP	0.47	0.94		40.1	mg/Kg-dry	1	08/30/2013 12:02	91487
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	08/30/2013 13:36	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.023	mg/Kg-dry	1	08/30/2013 14:27	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.153	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
1,2-Dichlorobenzene	NELAP	0.183	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
1,3-Dichlorobenzene	NELAP	0.193	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
1,4-Dichlorobenzene	NELAP	0.183	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4,5-Trichlorophenol	NELAP	0.109	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4,6-Trichlorophenol	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4-Dichlorophenol	NELAP	0.139	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4-Dimethylphenol	NELAP	0.146	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4-Dinitrophenol	NELAP	0.123	1.15		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,4-Dinitrotoluene	NELAP	0.12	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2,6-Dinitrotoluene	NELAP	0.124	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2-Chloronaphthalene	NELAP	0.138	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2-Chlorophenol	NELAP	0.146	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2-Methylnaphthalene	NELAP	0.137	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2-Nitroaniline	NELAP	0.105	1.15		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
2-Nitrophenol	NELAP	0.129	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
3,3'-Dichlorobenzidine	NELAP	0.23	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
3-Nitroaniline	NELAP	0.094	1.15		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4,6-Dinitro-2-methylphenol	NELAP	0.124	1.15		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Bromophenyl phenyl ether	NELAP	0.106	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Chloro-3-methylphenol	NELAP	0.126	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Chloroaniline	NELAP	0.139	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Chlorophenyl phenyl ether	NELAP	0.114	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Nitroaniline	NELAP	0.105	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
4-Nitrophenol	NELAP	0.113	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Bis(2-chloroethoxy)methane	NELAP	0.134	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Bis(2-chloroethyl)ether	NELAP	0.163	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Bis(2-chloroisopropyl)ether	NELAP	0.131	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Bis(2-ethylhexyl)phthalate	NELAP	0.134	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Butyl benzyl phthalate	NELAP	0.116	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-005

Client Sample ID: 1467V-4-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.14	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Dibenzofuran	NELAP	0.145	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Diethyl phthalate	NELAP	0.11	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Dimethyl phthalate	NELAP	0.105	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Di-n-butyl phthalate	NELAP	0.118	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Di-n-octyl phthalate	NELAP	0.12	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Hexachlorobenzene	NELAP	0.113	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Hexachlorobutadiene	NELAP	0.178	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Hexachlorocyclopentadiene	NELAP	0.117	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Hexachloroethane	NELAP	0.192	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Isophorone	NELAP	0.136	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
m,p-Cresol	NELAP	0.145	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Nitrobenzene	NELAP	0.144	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
N-Nitroso-di-n-propylamine	NELAP	0.126	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
N-Nitrosodiphenylamine	NELAP	0.106	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
o-Cresol	NELAP	0.136	0.575		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Pentachlorophenol	NELAP	0.758	2.3		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Phenol	NELAP	0.133	0.402		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	08/31/2013 12:14	91492
Surr: 2,4,6-Tribromophenol		0	32.7-130		64	%REC	1	08/31/2013 12:14	91492
Surr: 2-Fluorobiphenyl		0	34.1-116		53.7	%REC	1	08/31/2013 12:14	91492
Surr: 2-Fluorophenol		0	30.5-99		56.3	%REC	1	08/31/2013 12:14	91492
Surr: Nitrobenzene-d5		0	34.1-101		64.3	%REC	1	08/31/2013 12:14	91492
Surr: Phenol-d5		0	34.9-110		61	%REC	1	08/31/2013 12:14	91492
Surr: p-Terphenyl-d14		0	41.7-124		63.9	%REC	1	08/31/2013 12:14	91492
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,1,2,2-Tetrachloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,1,2-Trichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,1-Dichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,1-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,2-Dichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,2-Dichloropropane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
1,3-Dichloropropene, Total		0.0011	0.005		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
2-Butanone	NELAP	0.0114	0.057		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
2-Hexanone	NELAP	0.0114	0.057		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
4-Methyl-2-pentanone	NELAP	0.0114	0.057		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Acetone	NELAP	0.0114	0.057		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Benzene	NELAP	0.0006	0.001		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Bromodichloromethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653

Client: Andrews Engineering, Inc.

Work Order: 13081489

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081489-005

Client Sample ID: 1467V-4-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Bromomethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Carbon disulfide	NELAP	0.0034	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Carbon tetrachloride	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Chlorobenzene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Chloroethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Chloroform	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Chloromethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
cis-1,2-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
cis-1,3-Dichloropropene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Dibromochloromethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Ethylbenzene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
m,p-Xylenes	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Methyl tert-butyl ether	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Methylene chloride	NELAP	0.0011	0.006	BJ	0.002	mg/Kg-dry	1	09/04/2013 10:27	91653
o-Xylene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Styrene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Tetrachloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Toluene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
trans-1,2-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
trans-1,3-Dichloropropene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Trichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Vinyl acetate	NELAP	0.0227	0.057		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Vinyl chloride	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Xylenes, Total	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/04/2013 10:27	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		97.4	%REC	1	09/04/2013 10:27	91653
Surr: 4-Bromofluorobenzene		0	82.1-116		108.9	%REC	1	09/04/2013 10:27	91653
Surr: Dibromofluoromethane		0	77.7-120		98.4	%REC	1	09/04/2013 10:27	91653
Surr: Toluene-d8		0	86-116		104.9	%REC	1	09/04/2013 10:27	91653

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pinegrove Drive Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13081489</u> Sample Temp: <u>3.2</u>																																																																																																																																								
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>13081489-001</td> <td>1467V-4-B01-1</td> <td>8-26-13</td> <td>11:15AM</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5</td> </tr> <tr> <td>-002</td> <td>1467V-4-B01-2</td> <td>8-26-13</td> <td>11:20AM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S-10</td> </tr> <tr> <td>-003</td> <td>1467V-4-B02-1</td> <td>8-26-13</td> <td>11:40AM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5</td> </tr> <tr> <td>-004</td> <td>1467V-4-B02-1 DUP</td> <td>8-26-13</td> <td>11:45AM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D-5</td> </tr> <tr> <td>-005</td> <td>1467V-4-B02-2</td> <td>8-26-13</td> <td>11:50AM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S-10</td> </tr> <tr> <td>-006</td> <td>1467V-4-B03</td> <td>8-26-13</td> <td>3:15PM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4</td> </tr> <tr> <td>-007</td> <td>1467V-4-B03 DUP</td> <td>8-26-13</td> <td>4:00PM</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4</td> </tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	13081489-001	1467V-4-B01-1	8-26-13	11:15AM	S	X	X					X	X	X	X		0-5	-002	1467V-4-B01-2	8-26-13	11:20AM													S-10	-003	1467V-4-B02-1	8-26-13	11:40AM													0-5	-004	1467V-4-B02-1 DUP	8-26-13	11:45AM													D-5	-005	1467V-4-B02-2	8-26-13	11:50AM													S-10	-006	1467V-4-B03	8-26-13	3:15PM								X	X	X	X		0-4	-007	1467V-4-B03 DUP	8-26-13	4:00PM	S	X	X					X	X	X	X		0-4
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																																																											
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-005	1467V-4-B02-2	8-26-13	11:50AM													S-10																																																																																																																											
-006	1467V-4-B03	8-26-13	3:15PM								X	X	X	X		0-4																																																																																																																											
-007	1467V-4-B03 DUP	8-26-13	4:00PM	S	X	X					X	X	X	X		0-4																																																																																																																											
Relinquished by: <u>Shelly Hennessy</u> Relinquished by: <u>Shelly Hennessy</u> Relinquished by: <u>Shelly Hennessy</u>		Date/Time: 8-26-13 4:20pm Date/Time: 8-28-13 6:30am Date/Time: 8-28-13 2:30pm		Received by: <u>Stephanie Hoopes</u> Received by: <u>Stephanie Hoopes</u> Received by: <u>Stephanie Hoopes</u>		Date/Time: 8-26-13 4:25pm Date/Time: 8/28/13 6:30am Date/Time: 8/28/13 2:30pm																																																																																																																																					



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15N454 IL 47

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08833 Longitude: -88.45691

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 0890455019 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08833 Longitude: -88.45691

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-5-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 1467V-5. SEE FIGURES 3 AND 5 AND TABLE 3e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081490

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/2/14

Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-5

BP Gasoline Station

Sample ID	1467V-5-B01-1	1467V-5-B01-2	1467V-5-B02-1	1467V-5-B02-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7.5	7.5-15	0-5	5-10						
Sample Date	8/26/2013	8/26/2013	8/26/2013	8/26/2013						
PID	0	0	0	0						
Sample pH	8.77	8.25	7.86	7.68						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

September 10, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081490

Dear Colleen Grey:

TEKLAB, INC received 6 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-001

Client Sample ID: 1467V-5-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13.7	%	1	08/29/2013 13:47	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		86.3	%	1	08/29/2013 13:47	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.77		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0296	mg/L	1	09/04/2013 10:09	91575
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 10:09	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 10:09	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 10:09	91575
Chromium	NELAP	0.004	0.01	J	0.0041	mg/L	1	09/04/2013 10:09	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 10:09	91575
Iron	NELAP	0.007	0.02		2.25	mg/L	1	09/04/2013 10:09	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 10:09	91575
Manganese	NELAP	0.0016	0.005		0.0131	mg/L	1	09/04/2013 10:09	91575
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 10:09	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 10:09	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 10:09	91575
Zinc	NELAP	0.0021	0.01		0.015	mg/L	1	09/04/2013 10:09	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 12:25	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 12:57	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 14:50	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		5840	mg/Kg-dry	1	08/30/2013 12:37	91487
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 21:37	91527
Arsenic	NELAP	1.14	2.27		< 2.27	mg/Kg-dry	1	08/30/2013 12:37	91487
Barium	NELAP	0.23	0.45		46.4	mg/Kg-dry	1	08/30/2013 12:37	91487
Beryllium	NELAP	0.05	0.09		0.32	mg/Kg-dry	1	08/30/2013 12:37	91487
Boron	NELAP	0.91	1.82		5.95	mg/Kg-dry	1	08/30/2013 12:37	91487
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	08/30/2013 12:37	91487
Calcium	NELAP	2.27	4.55		60700	mg/Kg-dry	1	08/30/2013 12:37	91487
Chromium	NELAP	0.45	0.91		11.3	mg/Kg-dry	1	08/30/2013 12:37	91487
Cobalt	NELAP	0.45	0.91		3.06	mg/Kg-dry	1	08/30/2013 12:37	91487
Copper	NELAP	0.45	0.91		11.6	mg/Kg-dry	1	08/30/2013 12:37	91487
Iron	NELAP	0.91	1.82		8370	mg/Kg-dry	1	08/30/2013 12:37	91487
Lead	NELAP	1.82	3.64		7.63	mg/Kg-dry	1	08/30/2013 12:37	91487
Magnesium	NELAP	0.45	0.91		30500	mg/Kg-dry	1	08/30/2013 12:37	91487
Manganese	NELAP	0.23	0.45		183	mg/Kg-dry	1	08/30/2013 12:37	91487
Nickel	NELAP	0.45	0.91		8.06	mg/Kg-dry	1	08/30/2013 12:37	91487
Potassium	NELAP	4.55	9.09		975	mg/Kg-dry	1	08/30/2013 12:37	91487
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	08/30/2013 12:37	91487
Sodium	NELAP	2.27	4.55		247	mg/Kg-dry	1	08/30/2013 12:37	91487
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	08/30/2013 12:37	91487
Vanadium	NELAP	0.45	0.91		21	mg/Kg-dry	1	08/30/2013 12:37	91487
Zinc	NELAP	0.45	0.91		24.4	mg/Kg-dry	1	08/30/2013 12:37	91487



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-001

Client Sample ID: 1467V-5-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/03/2013 8:38	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.01	mg/Kg-dry	1	08/30/2013 14:33	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
1,2-Dichlorobenzene	NELAP	0.184	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
1,3-Dichlorobenzene	NELAP	0.195	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
1,4-Dichlorobenzene	NELAP	0.184	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4,5-Trichlorophenol	NELAP	0.11	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4,6-Trichlorophenol	NELAP	0.146	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4-Dichlorophenol	NELAP	0.14	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4-Dimethylphenol	NELAP	0.147	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,4-Dinitrotoluene	NELAP	0.12	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2,6-Dinitrotoluene	NELAP	0.125	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2-Chloronaphthalene	NELAP	0.139	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2-Chlorophenol	NELAP	0.147	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2-Methylnaphthalene	NELAP	0.138	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2-Nitroaniline	NELAP	0.105	1.16		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
2-Nitrophenol	NELAP	0.13	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
3,3'-Dichlorobenzidine	NELAP	0.232	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Bromophenyl phenyl ether	NELAP	0.107	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Chloro-3-methylphenol	NELAP	0.127	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Chloroaniline	NELAP	0.14	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Chlorophenyl phenyl ether	NELAP	0.115	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Nitroaniline	NELAP	0.105	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
4-Nitrophenol	NELAP	0.114	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Bis(2-chloroethoxy)methane	NELAP	0.136	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Bis(2-chloroethyl)ether	NELAP	0.164	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Butyl benzyl phthalate	NELAP	0.117	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Carbazole		0.141	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Dibenzofuran	NELAP	0.146	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Diethyl phthalate	NELAP	0.111	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-001

Client Sample ID: 1467V-5-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.105	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Di-n-butyl phthalate	NELAP	0.119	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Di-n-octyl phthalate	NELAP	0.12	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Hexachlorobenzene	NELAP	0.114	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Hexachlorobutadiene	NELAP	0.18	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Hexachlorocyclopentadiene	NELAP	0.118	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Hexachloroethane	NELAP	0.193	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/05/2013 4:23	91506
Isophorone	NELAP	0.137	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
m,p-Cresol	NELAP	0.146	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Nitrobenzene	NELAP	0.145	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
N-Nitroso-di-n-propylamine	NELAP	0.127	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
N-Nitrosodiphenylamine	NELAP	0.107	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
o-Cresol	NELAP	0.137	0.579		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Pentachlorophenol	NELAP	0.764	2.32		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Phenol	NELAP	0.134	0.405		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 4:54	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		85.9	%REC	1	09/04/2013 4:54	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		76.5	%REC	1	09/04/2013 4:54	91506
Surr: 2-Fluorophenol		0	30.5-99		80.3	%REC	1	09/04/2013 4:54	91506
Surr: Nitrobenzene-d5		0	34.1-101		77.9	%REC	1	09/04/2013 4:54	91506
Surr: Phenol-d5		0	34.9-110		84	%REC	1	09/04/2013 4:54	91506
Surr: p-Terphenyl-d14		0	41.7-124		96.7	%REC	1	09/04/2013 4:54	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
1,3-Dichloropropane, Total		0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
2-Butanone	NELAP	0.0085	0.043		0.047	mg/Kg-dry	1	08/30/2013 14:38	91526
2-Hexanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
4-Methyl-2-pentanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Acetone	NELAP	0.0085	0.043		0.281	mg/Kg-dry	1	08/30/2013 14:38	91526
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-001

Client Sample ID: 1467V-5-B01-1

Matrix: SOLID

Collection Date: 08/26/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
m,p-Xylenes	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 14:38	91526
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Methylene chloride	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 14:38	91526
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Toluene	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 14:38	91526
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Vinyl acetate	NELAP	0.017	0.043		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 14:38	91526
Xylenes, Total	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 14:38	91526
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.7	%REC	1	08/30/2013 14:38	91526
Surr: 4-Bromofluorobenzene		0	82.1-116	S	130.7	%REC	1	08/30/2013 14:38	91526
Surr: Dibromofluoromethane		0	77.7-120		105.5	%REC	1	08/30/2013 14:38	91526
Surr: Toluene-d8		0	86-116		109.9	%REC	1	08/30/2013 14:38	91526

Surrogate recovery is outside QC limits due to matrix interference.



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-002

Client Sample ID: 1467V-5-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.9	%	1	08/29/2013 13:47	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.1	%	1	08/29/2013 13:47	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.25		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0107	mg/L	1	09/04/2013 10:12	91575
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 10:12	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 10:12	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 10:12	91575
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/04/2013 10:12	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 10:12	91575
Iron	NELAP	0.007	0.02		1.04	mg/L	1	09/04/2013 10:12	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 10:12	91575
Manganese	NELAP	0.0016	0.005	J	0.0029	mg/L	1	09/04/2013 10:12	91575
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 10:12	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 10:12	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 10:12	91575
Zinc	NELAP	0.0021	0.01		0.0132	mg/L	1	09/04/2013 10:12	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 12:29	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 13:01	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 15:02	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		1840	mg/Kg-dry	1	08/30/2013 12:43	91487
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/03/2013 21:41	91527
Arsenic	NELAP	1.25	2.5		4.22	mg/Kg-dry	1	08/30/2013 12:43	91487
Barium	NELAP	0.25	0.5		20.7	mg/Kg-dry	1	08/30/2013 12:43	91487
Beryllium	NELAP	0.05	0.1		0.13	mg/Kg-dry	1	08/30/2013 12:43	91487
Boron	NELAP	1	2		5.23	mg/Kg-dry	1	08/30/2013 12:43	91487
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	08/30/2013 12:43	91487
Calcium	NELAP	2.5	5		62100	mg/Kg-dry	1	08/30/2013 12:43	91487
Chromium	NELAP	0.5	1		4.88	mg/Kg-dry	1	08/30/2013 12:43	91487
Cobalt	NELAP	0.5	1		2.08	mg/Kg-dry	1	08/30/2013 12:43	91487
Copper	NELAP	0.5	1		4.41	mg/Kg-dry	1	08/30/2013 12:43	91487
Iron	NELAP	1	2	X	21100	mg/Kg-dry	1	08/30/2013 12:43	91487
Lead	NELAP	2	4	J	2.71	mg/Kg-dry	1	08/30/2013 12:43	91487
Magnesium	NELAP	0.5	1		28300	mg/Kg-dry	1	08/30/2013 12:43	91487
Manganese	NELAP	0.25	0.5		181	mg/Kg-dry	1	08/30/2013 12:43	91487
Nickel	NELAP	0.5	1		5.57	mg/Kg-dry	1	08/30/2013 12:43	91487
Potassium	NELAP	5	10		444	mg/Kg-dry	1	08/30/2013 12:43	91487
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	08/30/2013 12:43	91487
Sodium	NELAP	2.5	5		176	mg/Kg-dry	1	08/30/2013 12:43	91487
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	08/30/2013 12:43	91487
Vanadium	NELAP	0.5	1		14.6	mg/Kg-dry	1	08/30/2013 12:43	91487
Zinc	NELAP	0.5	1		17	mg/Kg-dry	1	08/30/2013 12:43	91487

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-002

Client Sample ID: 1467V-5-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/03/2013 8:41	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.012	J	0.004	mg/Kg-dry	1	08/30/2013 14:36	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
1,2-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
1,3-Dichlorobenzene	NELAP	0.204	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
1,4-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4,5-Trichlorophenol	NELAP	0.115	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4,6-Trichlorophenol	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4-Dichlorophenol	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4-Dimethylphenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4-Dinitrophenol	NELAP	0.13	1.21		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,4-Dinitrotoluene	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2,6-Dinitrotoluene	NELAP	0.131	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2-Chloronaphthalene	NELAP	0.146	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2-Chlorophenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2-Methylnaphthalene	NELAP	0.144	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
2-Nitrophenol	NELAP	0.136	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
3,3'-Dichlorobenzidine	NELAP	0.243	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
3-Nitroaniline	NELAP	0.1	1.21		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Bromophenyl phenyl ether	NELAP	0.112	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Chloro-3-methylphenol	NELAP	0.133	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Chloroaniline	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Chlorophenyl phenyl ether	NELAP	0.12	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Nitroaniline	NELAP	0.11	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
4-Nitrophenol	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Bis(2-chloroethoxy)methane	NELAP	0.142	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Bis(2-chloroethyl)ether	NELAP	0.172	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.142	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Butyl benzyl phthalate	NELAP	0.123	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Carbazole		0.148	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Dibenzofuran	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Diethyl phthalate	NELAP	0.117	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-002

Client Sample ID: 1467V-5-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.11	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Di-n-butyl phthalate	NELAP	0.125	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Di-n-octyl phthalate	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Hexachlorobenzene	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Hexachlorobutadiene	NELAP	0.188	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Hexachlorocyclopentadiene	NELAP	0.124	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Hexachloroethane	NELAP	0.203	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 4:56	91506
Isophorone	NELAP	0.143	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
m,p-Cresol	NELAP	0.153	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Nitrobenzene	NELAP	0.152	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
N-Nitroso-di-n-propylamine	NELAP	0.133	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
N-Nitrosodiphenylamine	NELAP	0.112	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
o-Cresol	NELAP	0.143	0.607		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Pentachlorophenol	NELAP	0.801	2.43		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Phenol	NELAP	0.141	0.425		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 3:48	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		84.7	%REC	1	09/04/2013 3:48	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		68.2	%REC	1	09/04/2013 3:48	91506
Surr: 2-Fluorophenol		0	30.5-99		76.2	%REC	1	09/04/2013 3:48	91506
Surr: Nitrobenzene-d5		0	34.1-101		67.1	%REC	1	09/04/2013 3:48	91506
Surr: Phenol-d5		0	34.9-110		80.8	%REC	1	09/04/2013 3:48	91506
Surr: p-Terphenyl-d14		0	41.7-124		91.2	%REC	1	09/04/2013 3:48	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,1,2,2-Tetrachloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,1,2-Trichloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,1-Dichloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,1-Dichloroethene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,2-Dichloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,2-Dichloropropane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
1,3-Dichloropropene, Total		0.0017	0.007		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
2-Butanone	NELAP	0.0168	0.084		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
2-Hexanone	NELAP	0.0168	0.084		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
4-Methyl-2-pentanone	NELAP	0.0168	0.084		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Acetone	NELAP	0.0168	0.084		0.088	mg/Kg-dry	1	08/30/2013 15:08	91526
Benzene	NELAP	0.0008	0.002		0.003	mg/Kg-dry	1	08/30/2013 15:08	91526
Bromodichloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Bromoform	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Bromomethane	NELAP	0.0034	0.017		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Carbon disulfide	NELAP	0.005	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Carbon tetrachloride	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Chlorobenzene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-002

Client Sample ID: 1467V-5-B01-2

Matrix: SOLID

Collection Date: 08/26/2013 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0034	0.017		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Chloroform	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Chloromethane	NELAP	0.0034	0.017		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
cis-1,2-Dichloroethene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
cis-1,3-Dichloropropene	NELAP	0.0017	0.007		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Dibromochloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Ethylbenzene	NELAP	0.0017	0.008	J	0.002	mg/Kg-dry	1	08/30/2013 15:08	91526
m,p-Xylenes	NELAP	0.0017	0.008	J	0.004	mg/Kg-dry	1	08/30/2013 15:08	91526
Methyl tert-butyl ether	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Methylene chloride	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
o-Xylene	NELAP	0.0017	0.008	J	0.002	mg/Kg-dry	1	08/30/2013 15:08	91526
Styrene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Tetrachloroethene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Toluene	NELAP	0.0017	0.008	J	0.008	mg/Kg-dry	1	08/30/2013 15:08	91526
trans-1,2-Dichloroethene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
trans-1,3-Dichloropropene	NELAP	0.0017	0.007		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Trichloroethene	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Vinyl acetate	NELAP	0.0336	0.084		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Vinyl chloride	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 15:08	91526
Xylenes, Total	NELAP	0.0017	0.008	J	0.006	mg/Kg-dry	1	08/30/2013 15:08	91526
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.7	%REC	1	08/30/2013 15:08	91526
Surr: 4-Bromofluorobenzene		0	82.1-116		110.1	%REC	1	08/30/2013 15:08	91526
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	08/30/2013 15:08	91526
Surr: Toluene-d8		0	86-116		102.1	%REC	1	08/30/2013 15:08	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-003

Client Sample ID: 1467V-5-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		22	%	1	08/29/2013 13:48	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		78	%	1	08/29/2013 13:48	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.86		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0313	mg/L	1	09/04/2013 10:16	91575
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 10:16	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 10:16	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 10:16	91575
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/04/2013 10:16	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 10:16	91575
Iron	NELAP	0.007	0.02		0.454	mg/L	1	09/04/2013 10:16	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 10:16	91575
Manganese	NELAP	0.0016	0.005	J	0.004	mg/L	1	09/04/2013 10:16	91575
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 10:16	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 10:16	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 10:16	91575
Zinc	NELAP	0.0021	0.01	J	0.006	mg/L	1	09/04/2013 10:16	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 12:40	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 13:11	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 15:04	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		15800	mg/Kg-dry	1	08/30/2013 12:49	91487
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 21:44	91527
Arsenic	NELAP	1.16	2.31		5.57	mg/Kg-dry	1	08/30/2013 12:49	91487
Barium	NELAP	0.23	0.46		262	mg/Kg-dry	1	08/30/2013 12:49	91487
Beryllium	NELAP	0.05	0.09		0.8	mg/Kg-dry	1	08/30/2013 12:49	91487
Boron	NELAP	0.93	1.85		8.87	mg/Kg-dry	1	08/30/2013 12:49	91487
Cadmium	NELAP	0.09	0.19		0.33	mg/Kg-dry	1	08/30/2013 12:49	91487
Calcium	NELAP	2.31	4.63		16700	mg/Kg-dry	1	08/30/2013 12:49	91487
Chromium	NELAP	0.46	0.93	X	21.2	mg/Kg-dry	1	08/30/2013 12:49	91487
Cobalt	NELAP	0.46	0.93		10.3	mg/Kg-dry	1	08/30/2013 12:49	91487
Copper	NELAP	0.46	0.93		15.1	mg/Kg-dry	1	08/30/2013 12:49	91487
Iron	NELAP	0.93	1.85	X	20500	mg/Kg-dry	1	08/30/2013 12:49	91487
Lead	NELAP	1.85	3.7		13	mg/Kg-dry	1	08/30/2013 12:49	91487
Magnesium	NELAP	0.46	0.93		7000	mg/Kg-dry	1	08/30/2013 12:49	91487
Manganese	NELAP	0.23	0.46	X	1440	mg/Kg-dry	1	08/30/2013 12:49	91487
Nickel	NELAP	0.46	0.93		25.5	mg/Kg-dry	1	08/30/2013 12:49	91487
Potassium	NELAP	4.63	9.26		1220	mg/Kg-dry	1	08/30/2013 12:49	91487
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	08/30/2013 12:49	91487
Sodium	NELAP	2.31	4.63		528	mg/Kg-dry	1	08/30/2013 12:49	91487
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	08/30/2013 12:49	91487
Vanadium	NELAP	0.46	0.93		37.9	mg/Kg-dry	1	08/30/2013 12:49	91487
Zinc	NELAP	0.46	0.93		51.4	mg/Kg-dry	1	08/30/2013 12:49	91487



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-003

Client Sample ID: 1467V-5-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/03/2013 8:45	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.038	mg/Kg-dry	1	08/30/2013 14:38	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.17	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
1,2-Dichlorobenzene	NELAP	0.204	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
1,3-Dichlorobenzene	NELAP	0.215	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
1,4-Dichlorobenzene	NELAP	0.204	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4,5-Trichlorophenol	NELAP	0.122	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4,6-Trichlorophenol	NELAP	0.161	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4-Dichlorophenol	NELAP	0.155	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4-Dimethylphenol	NELAP	0.163	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4-Dinitrophenol	NELAP	0.137	1.28		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,4-Dinitrotoluene	NELAP	0.133	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2,6-Dinitrotoluene	NELAP	0.138	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2-Chloronaphthalene	NELAP	0.154	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2-Chlorophenol	NELAP	0.163	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2-Methylnaphthalene	NELAP	0.152	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2-Nitroaniline	NELAP	0.117	1.28		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
2-Nitrophenol	NELAP	0.143	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
3,3'-Dichlorobenzidine	NELAP	0.256	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
3-Nitroaniline	NELAP	0.105	1.28		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4,6-Dinitro-2-methylphenol	NELAP	0.138	1.28		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Bromophenyl phenyl ether	NELAP	0.118	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Chloro-3-methylphenol	NELAP	0.141	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Chloroaniline	NELAP	0.155	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Chlorophenyl phenyl ether	NELAP	0.127	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Nitroaniline	NELAP	0.117	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
4-Nitrophenol	NELAP	0.125	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Acenaphthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Acenaphthylene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Benzo(a)anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Benzo(a)pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Benzo(b)fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Benzo(g,h,i)perylene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Benzo(k)fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Bis(2-chloroethoxy)methane	NELAP	0.15	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Bis(2-chloroethyl)ether	NELAP	0.182	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Bis(2-chloroisopropyl)ether	NELAP	0.146	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.15	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Butyl benzyl phthalate	NELAP	0.129	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Carbazole		0.156	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Chrysene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Dibenzo(a,h)anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Dibenzofuran	NELAP	0.161	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Diethyl phthalate	NELAP	0.123	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-003

Client Sample ID: 1467V-5-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dimethyl phthalate	NELAP	0.117	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Di-n-butyl phthalate	NELAP	0.132	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Di-n-octyl phthalate	NELAP	0.133	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Fluorene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Hexachlorobenzene	NELAP	0.125	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Hexachlorobutadiene	NELAP	0.198	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Hexachlorocyclopentadiene	NELAP	0.131	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Hexachloroethane	NELAP	0.214	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Isophorone	NELAP	0.151	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
m,p-Cresol	NELAP	0.161	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Naphthalene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Nitrobenzene	NELAP	0.16	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
N-Nitroso-di-n-propylamine	NELAP	0.141	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
N-Nitrosodiphenylamine	NELAP	0.118	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
o-Cresol	NELAP	0.151	0.64		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Pentachlorophenol	NELAP	0.845	2.56		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Phenanthrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Phenol	NELAP	0.149	0.448		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/04/2013 3:16	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		79.8	%REC	1	09/04/2013 3:16	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		66.4	%REC	1	09/04/2013 3:16	91506
Surr: 2-Fluorophenol		0	30.5-99		72.2	%REC	1	09/04/2013 3:16	91506
Surr: Nitrobenzene-d5		0	34.1-101		75.7	%REC	1	09/04/2013 3:16	91506
Surr: Phenol-d5		0	34.9-110		77.8	%REC	1	09/04/2013 3:16	91506
Surr: p-Terphenyl-d14		0	41.7-124		85.9	%REC	1	09/04/2013 3:16	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
1,3-Dichloropropane, Total		0.001	0.004		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
2-Butanone	NELAP	0.0097	0.049	J	0.015	mg/Kg-dry	1	08/30/2013 15:38	91526
2-Hexanone	NELAP	0.0097	0.049		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
4-Methyl-2-pentanone	NELAP	0.0097	0.049		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Acetone	NELAP	0.0097	0.049		0.081	mg/Kg-dry	1	08/30/2013 15:38	91526
Benzene	NELAP	0.0005	0.001		0.008	mg/Kg-dry	1	08/30/2013 15:38	91526
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Bromomethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-003

Client Sample ID: 1467V-5-B02-1

Matrix: SOLID

Collection Date: 08/26/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Chloromethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
m,p-Xylenes	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	08/30/2013 15:38	91526
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Toluene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	08/30/2013 15:38	91526
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Vinyl acetate	NELAP	0.0195	0.049		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 15:38	91526
Xylenes, Total	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	08/30/2013 15:38	91526
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.4	%REC	1	08/30/2013 15:38	91526
Surr: 4-Bromofluorobenzene		0	82.1-116		112	%REC	1	08/30/2013 15:38	91526
Surr: Dibromofluoromethane		0	77.7-120		101.8	%REC	1	08/30/2013 15:38	91526
Surr: Toluene-d8		0	86-116		101.5	%REC	1	08/30/2013 15:38	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-004

Client Sample ID: 1467V-5-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.3	%	1	08/29/2013 13:48	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.7	%	1	08/29/2013 13:48	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.68		1	08/29/2013 15:33	R181258
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0341	mg/L	1	09/04/2013 10:20	91575
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/04/2013 10:20	91575
Boron	NELAP	1	2		< 2	mg/L	1	09/04/2013 10:20	91575
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/04/2013 10:20	91575
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/04/2013 10:20	91575
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/04/2013 10:20	91575
Iron	NELAP	0.007	0.02		0.643	mg/L	1	09/04/2013 10:20	91575
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/04/2013 10:20	91575
Manganese	NELAP	0.0016	0.005		0.0075	mg/L	1	09/04/2013 10:20	91575
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/04/2013 10:20	91575
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/04/2013 10:20	91575
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/04/2013 10:20	91575
Zinc	NELAP	0.0021	0.01	J	0.0056	mg/L	1	09/04/2013 10:20	91575
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/04/2013 12:44	91577
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/05/2013 13:15	91577
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/04/2013 15:06	91583
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		15400	mg/Kg-dry	1	08/30/2013 12:55	91487
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 21:48	91527
Arsenic	NELAP	1.2	2.4		5.62	mg/Kg-dry	1	08/30/2013 12:55	91487
Barium	NELAP	0.24	0.48		445	mg/Kg-dry	1	08/30/2013 12:55	91487
Beryllium	NELAP	0.05	0.1		0.73	mg/Kg-dry	1	08/30/2013 12:55	91487
Boron	NELAP	0.96	1.92		7.27	mg/Kg-dry	1	08/30/2013 12:55	91487
Cadmium	NELAP	0.1	0.19		0.52	mg/Kg-dry	1	08/30/2013 12:55	91487
Calcium	NELAP	2.4	4.81		6300	mg/Kg-dry	1	08/30/2013 12:55	91487
Chromium	NELAP	0.48	0.96	X	24	mg/Kg-dry	1	08/30/2013 12:55	91487
Cobalt	NELAP	0.48	0.96	X	20.1	mg/Kg-dry	1	08/30/2013 12:55	91487
Copper	NELAP	0.48	0.96		14.3	mg/Kg-dry	1	08/30/2013 12:55	91487
Iron	NELAP	0.96	1.92	X	19700	mg/Kg-dry	1	08/30/2013 12:55	91487
Lead	NELAP	1.92	3.85		13.5	mg/Kg-dry	1	08/30/2013 12:55	91487
Magnesium	NELAP	0.48	0.96		4950	mg/Kg-dry	1	08/30/2013 12:55	91487
Manganese	NELAP	0.24	0.48	X	2630	mg/Kg-dry	1	08/30/2013 12:55	91487
Nickel	NELAP	0.48	0.96		42.7	mg/Kg-dry	1	08/30/2013 12:55	91487
Potassium	NELAP	4.81	9.62		1540	mg/Kg-dry	1	08/30/2013 12:55	91487
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	08/30/2013 12:55	91487
Sodium	NELAP	2.4	4.81		348	mg/Kg-dry	1	08/30/2013 12:55	91487
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	08/30/2013 12:55	91487
Vanadium	NELAP	0.48	0.96		35.6	mg/Kg-dry	1	08/30/2013 12:55	91487
Zinc	NELAP	0.48	0.96		57	mg/Kg-dry	1	08/30/2013 12:55	91487



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-004

Client Sample ID: 1467V-5-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/03/2013 8:48	91496
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.037	mg/Kg-dry	1	08/30/2013 14:40	91479
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.167	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
1,2-Dichlorobenzene	NELAP	0.199	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
1,3-Dichlorobenzene	NELAP	0.21	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
1,4-Dichlorobenzene	NELAP	0.199	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4,5-Trichlorophenol	NELAP	0.119	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4,6-Trichlorophenol	NELAP	0.158	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4-Dichlorophenol	NELAP	0.151	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4-Dimethylphenol	NELAP	0.159	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4-Dinitrophenol	NELAP	0.134	1.25		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,4-Dinitrotoluene	NELAP	0.13	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2,6-Dinitrotoluene	NELAP	0.135	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2-Chloronaphthalene	NELAP	0.15	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2-Chlorophenol	NELAP	0.159	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2-Methylnaphthalene	NELAP	0.149	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2-Nitroaniline	NELAP	0.114	1.25		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
2-Nitrophenol	NELAP	0.14	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
3,3'-Dichlorobenzidine	NELAP	0.25	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
3-Nitroaniline	NELAP	0.103	1.25		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4,6-Dinitro-2-methylphenol	NELAP	0.135	1.25		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Bromophenyl phenyl ether	NELAP	0.115	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Chloro-3-methylphenol	NELAP	0.138	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Chloroaniline	NELAP	0.151	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Chlorophenyl phenyl ether	NELAP	0.124	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Nitroaniline	NELAP	0.114	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
4-Nitrophenol	NELAP	0.123	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Bis(2-chloroethoxy)methane	NELAP	0.146	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Bis(2-chloroethyl)ether	NELAP	0.178	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Bis(2-chloroisopropyl)ether	NELAP	0.143	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.146	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Butyl benzyl phthalate	NELAP	0.126	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Carbazole		0.153	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Dibenzofuran	NELAP	0.158	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Diethyl phthalate	NELAP	0.12	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-004

Client Sample ID: 1467V-5-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.114	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Di-n-butyl phthalate	NELAP	0.129	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Di-n-octyl phthalate	NELAP	0.13	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Hexachlorobenzene	NELAP	0.123	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Hexachlorobutadiene	NELAP	0.194	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Hexachlorocyclopentadiene	NELAP	0.128	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Hexachloroethane	NELAP	0.209	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/05/2013 3:51	91506
Isophorone	NELAP	0.148	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
m,p-Cresol	NELAP	0.158	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Nitrobenzene	NELAP	0.156	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
N-Nitroso-di-n-propylamine	NELAP	0.138	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
N-Nitrosodiphenylamine	NELAP	0.115	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
o-Cresol	NELAP	0.148	0.626		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Pentachlorophenol	NELAP	0.826	2.5		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Phenol	NELAP	0.145	0.438		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/04/2013 4:21	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		74.3	%REC	1	09/04/2013 4:21	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		61.6	%REC	1	09/04/2013 4:21	91506
Surr: 2-Fluorophenol		0	30.5-99		72.9	%REC	1	09/04/2013 4:21	91506
Surr: Nitrobenzene-d5		0	34.1-101		70.2	%REC	1	09/04/2013 4:21	91506
Surr: Phenol-d5		0	34.9-110		72.2	%REC	1	09/04/2013 4:21	91506
Surr: p-Terphenyl-d14		0	41.7-124		86.6	%REC	1	09/04/2013 4:21	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
2-Butanone	NELAP	0.0093	0.046		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
2-Hexanone	NELAP	0.0093	0.046		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
4-Methyl-2-pentanone	NELAP	0.0093	0.046		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Acetone	NELAP	0.0093	0.046	J	0.017	mg/Kg-dry	1	08/30/2013 16:07	91526
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Bromomethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081490

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081490-004

Client Sample ID: 1467V-5-B02-2

Matrix: SOLID

Collection Date: 08/26/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Chloromethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Toluene	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	08/30/2013 16:07	91526
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Vinyl acetate	NELAP	0.0185	0.046		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	08/30/2013 16:07	91526
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.2	%REC	1	08/30/2013 16:07	91526
Surr: 4-Bromofluorobenzene		0	82.1-116		108.3	%REC	1	08/30/2013 16:07	91526
Surr: Dibromofluoromethane		0	77.7-120		101.4	%REC	1	08/30/2013 16:07	91526
Surr: Toluene-d8		0	86-116		101.6	%REC	1	08/30/2013 16:07	91526



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Shove Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13081490</u> Sample Temp: <u>2.4 ice</u> Matrix Key: W: Water S: Soil SL: Sludge L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions:																
See Table 2 for complete parameter lists and minimum reporting limits.																
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.																
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13081490-001	1467V-5-B01-1	8-26-13	2:10pm	S	X						X	X	X	X		0-7.5
-02	1467V-5-B01-2	8-26-13	2:15pm													7.5-15
-03	1467V-5-B02-1	8-26-13	3:30pm													0-5
-04	1467V-5-B02-2	8-26-13	3:35pm													5-10
-05	1467V-5-B03-1	8-26-13	1:55pm													0-5
-06	1467V-5-B03-2	8-26-13	2:00pm													5-10
	1467V-5-B04-1															REFUSAL
	1467V-5-B04-2															REFUSAL
	1467V-5-B05-1															REFUSAL
	1467V-5-B05-2			S	X	X					X	X	X	X		REFUSAL
Relinquished by: <u>[Signature]</u>					Date/Time	8-26-13 4:20pm										
Relinquished by: <u>[Signature]</u>					Date/Time	8-28-13 6:30pm										
Relinquished by: <u>[Signature]</u>					Date/Time	8/28/13 21:30										
Relinquished by: <u>[Signature]</u>					Date/Time	8/29/13 8:40										

Received by: [Signature]
 Received by: [Signature]
 Received by: [Signature]
 Received by: [Signature]

Date/Time: 8-26-13 4:20pm
 Date/Time: 8-28-13 6:30pm
 Date/Time: 8/28/13 21:30
 Date/Time: 8/29/13 8:40

Stephano Henriquez 8/29/13
 8/29/13 8:40
 8/28/13 21:30

Andrews Engineering, Inc.
 IDOT2013FormsCOCs(AE) - 10/07/2013 COC (Tech.ub)



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15N341 IL 47

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08856 Longitude: -88.45588
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08856 Longitude: -88.45588

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-6-B04 AND -B05 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-6. SEE FIGURE 3 AND TABLE 3f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081491

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

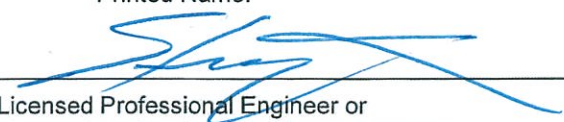
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

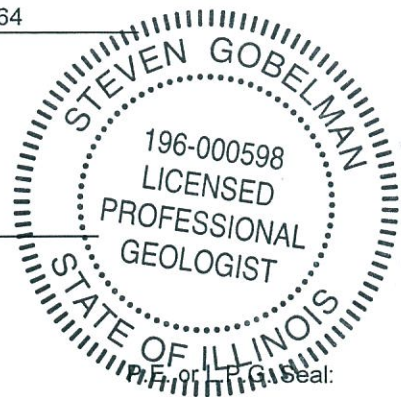
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/2/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-6

County Faire Shoppes/WK Lansdscape & Garden Center

Sample ID	1467V-6-B04-1	1467V-6-B04-2	1467V-6-B05-1	1467V-6-B05-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only			
Sample Depth (ft)	0-5	5-10	0-5	5-10									
Sample Date	8/27/2013	8/27/2013	8/27/2013	8/27/2013									
PID	0	0	0	0									
Sample pH	8.33	8.37	8.05	8.22									
Matrix	Soil	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)													
Arsenic	8.17	11.4	1,3,*	6.91		7.87		11.3	NA	11.3	NA	13	NA

September 10, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081491

Dear Colleen Grey:

TEKLAB, INC received 11 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-008

Client Sample ID: 1467V-6-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		26.5	%	1	08/29/2013 13:53	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		73.5	%	1	08/29/2013 13:53	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.33		1	08/29/2013 15:33	R181258
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0853	mg/L	1	09/09/2013 13:55	91704
Lead	NELAP	0.006	0.007	J	0.0066	mg/L	1	09/09/2013 13:55	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0936	mg/L	1	09/05/2013 9:50	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 9:50	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 9:50	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 9:50	91626
Chromium	NELAP	0.004	0.01		0.012	mg/L	1	09/05/2013 9:50	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 9:50	91626
Iron	NELAP	0.007	0.02	X	8.54	mg/L	1	09/05/2013 9:50	91626
Lead	NELAP	0.006	0.007	X	0.0094	mg/L	1	09/05/2013 9:50	91626
Manganese	NELAP	0.0016	0.005		0.0464	mg/L	1	09/05/2013 9:50	91626
Nickel	NELAP	0.0033	0.01	J	0.0087	mg/L	1	09/05/2013 9:50	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 9:50	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 9:50	91626
Zinc	NELAP	0.0021	0.01		0.0372	mg/L	1	09/05/2013 9:50	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:05	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:22	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 13:42	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		14800	mg/Kg-dry	1	09/03/2013 19:03	91503
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/03/2013 22:47	91527
Arsenic	NELAP	1.14	2.27		8.17	mg/Kg-dry	1	09/03/2013 19:03	91503
Barium	NELAP	0.23	0.45		148	mg/Kg-dry	1	09/03/2013 19:03	91503
Beryllium	NELAP	0.05	0.09		0.75	mg/Kg-dry	1	09/03/2013 19:03	91503
Boron	NELAP	0.91	1.82		8.96	mg/Kg-dry	1	09/03/2013 19:03	91503
Cadmium	NELAP	0.09	0.18		0.43	mg/Kg-dry	1	09/03/2013 19:03	91503
Calcium	NELAP	2.27	4.55		19000	mg/Kg-dry	1	09/03/2013 19:03	91503
Chromium	NELAP	0.45	0.91	X	21.3	mg/Kg-dry	1	09/03/2013 19:03	91503
Cobalt	NELAP	0.45	0.91		14.9	mg/Kg-dry	1	09/03/2013 19:03	91503
Copper	NELAP	0.45	0.91		21.7	mg/Kg-dry	1	09/03/2013 19:03	91503
Iron	NELAP	0.91	1.82	X	20300	mg/Kg-dry	1	09/03/2013 19:03	91503
Lead	NELAP	1.82	3.64		80.8	mg/Kg-dry	1	09/03/2013 19:03	91503
Magnesium	NELAP	0.45	0.91		10600	mg/Kg-dry	1	09/03/2013 19:03	91503
Manganese	NELAP	0.23	0.45	X	814	mg/Kg-dry	1	09/03/2013 19:03	91503
Nickel	NELAP	0.45	0.91		22.9	mg/Kg-dry	1	09/03/2013 19:03	91503
Potassium	NELAP	4.55	9.09		1710	mg/Kg-dry	1	09/03/2013 19:03	91503

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-008

Client Sample ID: 1467V-6-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/03/2013 19:03	91503
Sodium	NELAP	2.27	4.55		3770	mg/Kg-dry	1	09/03/2013 19:03	91503
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/03/2013 19:03	91503
Vanadium	NELAP	0.45	0.91		34.6	mg/Kg-dry	1	09/03/2013 19:03	91503
Zinc	NELAP	0.45	0.91		72.4	mg/Kg-dry	1	09/03/2013 19:03	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/03/2013 10:13	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.014		0.051	mg/Kg-dry	1	08/30/2013 13:06	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.183	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
1,2-Dichlorobenzene	NELAP	0.219	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
1,3-Dichlorobenzene	NELAP	0.231	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
1,4-Dichlorobenzene	NELAP	0.219	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4,5-Trichlorophenol	NELAP	0.131	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4,6-Trichlorophenol	NELAP	0.173	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4-Dichlorophenol	NELAP	0.166	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4-Dimethylphenol	NELAP	0.175	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4-Dinitrophenol	NELAP	0.147	1.38		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,4-Dinitrotoluene	NELAP	0.143	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2,6-Dinitrotoluene	NELAP	0.149	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2-Chloronaphthalene	NELAP	0.165	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2-Chlorophenol	NELAP	0.175	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2-Methylnaphthalene	NELAP	0.164	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2-Nitroaniline	NELAP	0.125	1.38		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
2-Nitrophenol	NELAP	0.154	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
3,3'-Dichlorobenzidine	NELAP	0.275	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
3-Nitroaniline	NELAP	0.113	1.38		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4,6-Dinitro-2-methylphenol	NELAP	0.149	1.38		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Bromophenyl phenyl ether	NELAP	0.127	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Chloro-3-methylphenol	NELAP	0.151	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Chloroaniline	NELAP	0.166	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Chlorophenyl phenyl ether	NELAP	0.136	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Nitroaniline	NELAP	0.125	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
4-Nitrophenol	NELAP	0.135	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Acenaphthene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Acenaphthylene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Anthracene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Benzo(a)anthracene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Benzo(a)pyrene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Benzo(b)fluoranthene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Benzo(g,h,i)perylene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Benzo(k)fluoranthene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Bis(2-chloroethoxy)methane	NELAP	0.161	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Bis(2-chloroethyl)ether	NELAP	0.195	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Bis(2-chloroisopropyl)ether	NELAP	0.157	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-008

Client Sample ID: 1467V-6-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.161	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Butyl benzyl phthalate	NELAP	0.139	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Carbazole		0.168	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Chrysene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Dibenzo(a,h)anthracene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Dibenzofuran	NELAP	0.173	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Diethyl phthalate	NELAP	0.132	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Dimethyl phthalate	NELAP	0.125	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Di-n-butyl phthalate	NELAP	0.142	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Di-n-octyl phthalate	NELAP	0.143	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Fluoranthene	NELAP	0.023	0.047		0.06	mg/Kg-dry	1	09/04/2013 2:11	91506
Fluorene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Hexachlorobenzene	NELAP	0.135	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Hexachlorobutadiene	NELAP	0.213	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Hexachlorocyclopentadiene	NELAP	0.14	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Hexachloroethane	NELAP	0.23	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Isophorone	NELAP	0.162	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
m,p-Cresol	NELAP	0.173	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Naphthalene	NELAP	0.023	0.047		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Nitrobenzene	NELAP	0.172	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
N-Nitroso-di-n-propylamine	NELAP	0.151	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
N-Nitrosodiphenylamine	NELAP	0.127	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
o-Cresol	NELAP	0.162	0.688		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Pentachlorophenol	NELAP	0.908	2.75		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Phenanthrene	NELAP	0.023	0.047		0.071	mg/Kg-dry	1	09/04/2013 2:11	91506
Phenol	NELAP	0.16	0.481		ND	mg/Kg-dry	1	09/04/2013 2:11	91506
Pyrene	NELAP	0.023	0.047	J	0.045	mg/Kg-dry	1	09/04/2013 2:11	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		78.6	%REC	1	09/04/2013 2:11	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		52.7	%REC	1	09/04/2013 2:11	91506
Surr: 2-Fluorophenol		0	30.5-99		70.5	%REC	1	09/04/2013 2:11	91506
Surr: Nitrobenzene-d5		0	34.1-101		67.9	%REC	1	09/04/2013 2:11	91506
Surr: Phenol-d5		0	34.9-110		76.7	%REC	1	09/04/2013 2:11	91506
Surr: p-Terphenyl-d14		0	41.7-124		87.1	%REC	1	09/04/2013 2:11	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
2-Butanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
2-Hexanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
4-Methyl-2-pentanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Acetone	NELAP	0.01	0.05	J	0.044	mg/Kg-dry	1	09/03/2013 11:32	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-008

Client Sample ID: 1467V-6-B04-1

Matrix: SOLID

Collection Date: 08/27/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0005	0.001		0.001	mg/Kg-dry	1	09/03/2013 11:32	91590
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Carbon disulfide	NELAP	0.003	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Ethylbenzene	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 11:32	91590
m,p-Xylenes	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	09/03/2013 11:32	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
o-Xylene	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/03/2013 11:32	91590
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Toluene	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 11:32	91590
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Vinyl acetate	NELAP	0.02	0.05		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 11:32	91590
Xylenes, Total	NELAP	0.001	0.005		0.005	mg/Kg-dry	1	09/03/2013 11:32	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		107.8	%REC	1	09/03/2013 11:32	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		109.1	%REC	1	09/03/2013 11:32	91590
Surr: Dibromofluoromethane		0	77.7-120		101.8	%REC	1	09/03/2013 11:32	91590
Surr: Toluene-d8		0	86-116		102.1	%REC	1	09/03/2013 11:32	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-009

Client Sample ID: 1467V-6-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16	%	1	08/29/2013 13:53	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		84	%	1	08/29/2013 13:53	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.37		1	08/30/2013 9:18	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.168	mg/L	1	09/09/2013 14:01	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.112	mg/L	1	09/05/2013 9:53	91626
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/05/2013 9:53	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 9:53	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 9:53	91626
Chromium	NELAP	0.004	0.01		0.0191	mg/L	1	09/05/2013 9:53	91626
Cobalt	NELAP	0.0022	0.01	J	0.003	mg/L	1	09/05/2013 9:53	91626
Iron	NELAP	0.007	0.02	X	17.8	mg/L	1	09/05/2013 9:53	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 9:53	91626
Manganese	NELAP	0.0016	0.005		0.0529	mg/L	1	09/05/2013 9:53	91626
Nickel	NELAP	0.0033	0.01	J	0.0095	mg/L	1	09/05/2013 9:53	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 9:53	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 9:53	91626
Zinc	NELAP	0.0021	0.01		0.0345	mg/L	1	09/05/2013 9:53	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:08	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:26	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 13:44	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		10800	mg/Kg-dry	1	09/03/2013 19:21	91503
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/03/2013 22:51	91527
Arsenic	NELAP	1.23	2.45	X	11.4	mg/Kg-dry	1	09/03/2013 19:21	91503
Barium	NELAP	0.25	0.49		211	mg/Kg-dry	1	09/03/2013 19:21	91503
Beryllium	NELAP	0.05	0.1		0.59	mg/Kg-dry	1	09/03/2013 19:21	91503
Boron	NELAP	0.98	1.96		4.91	mg/Kg-dry	1	09/03/2013 19:21	91503
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/03/2013 19:21	91503
Calcium	NELAP	2.45	4.9		36800	mg/Kg-dry	1	09/03/2013 19:21	91503
Chromium	NELAP	0.49	0.98	X	17.5	mg/Kg-dry	1	09/03/2013 19:21	91503
Cobalt	NELAP	0.49	0.98		11.8	mg/Kg-dry	1	09/03/2013 19:21	91503
Copper	NELAP	0.49	0.98		10.7	mg/Kg-dry	1	09/03/2013 19:21	91503
Iron	NELAP	0.98	1.96	X	21000	mg/Kg-dry	1	09/03/2013 19:21	91503
Lead	NELAP	1.96	3.92		11.3	mg/Kg-dry	1	09/03/2013 19:21	91503
Magnesium	NELAP	0.49	0.98		21700	mg/Kg-dry	1	09/03/2013 19:21	91503
Manganese	NELAP	0.25	0.49	X	1520	mg/Kg-dry	1	09/03/2013 19:21	91503
Nickel	NELAP	0.49	0.98		22.5	mg/Kg-dry	1	09/03/2013 19:21	91503
Potassium	NELAP	4.9	9.8		1430	mg/Kg-dry	1	09/03/2013 19:21	91503
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/03/2013 19:21	91503

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-009

Client Sample ID: 1467V-6-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		1460	mg/Kg-dry	1	09/03/2013 19:21	91503
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/03/2013 19:21	91503
Vanadium	NELAP	0.49	0.98		37.1	mg/Kg-dry	1	09/03/2013 19:21	91503
Zinc	NELAP	0.49	0.98		37.4	mg/Kg-dry	1	09/03/2013 19:21	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/03/2013 10:16	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.011	mg/Kg-dry	1	08/30/2013 13:08	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.159	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
1,2-Dichlorobenzene	NELAP	0.191	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
1,3-Dichlorobenzene	NELAP	0.201	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
1,4-Dichlorobenzene	NELAP	0.191	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4,5-Trichlorophenol	NELAP	0.114	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4,6-Trichlorophenol	NELAP	0.151	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4-Dichlorophenol	NELAP	0.145	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4-Dimethylphenol	NELAP	0.152	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4-Dinitrophenol	NELAP	0.128	1.2		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,4-Dinitrotoluene	NELAP	0.125	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2,6-Dinitrotoluene	NELAP	0.129	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2-Chloronaphthalene	NELAP	0.144	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2-Chlorophenol	NELAP	0.152	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2-Methylnaphthalene	NELAP	0.143	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2-Nitroaniline	NELAP	0.109	1.2		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
2-Nitrophenol	NELAP	0.134	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
3,3'-Dichlorobenzidine	NELAP	0.24	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
3-Nitroaniline	NELAP	0.098	1.2		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4,6-Dinitro-2-methylphenol	NELAP	0.129	1.2		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Bromophenyl phenyl ether	NELAP	0.11	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Chloro-3-methylphenol	NELAP	0.132	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Chloroaniline	NELAP	0.145	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Chlorophenyl phenyl ether	NELAP	0.119	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Nitroaniline	NELAP	0.109	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
4-Nitrophenol	NELAP	0.118	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Bis(2-chloroethoxy)methane	NELAP	0.14	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Bis(2-chloroethyl)ether	NELAP	0.17	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Bis(2-chloroisopropyl)ether	NELAP	0.137	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.14	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-009

Client Sample ID: 1467V-6-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.121	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Carbazole		0.146	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Dibenzofuran	NELAP	0.151	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Diethyl phthalate	NELAP	0.115	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Dimethyl phthalate	NELAP	0.109	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Di-n-butyl phthalate	NELAP	0.124	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Di-n-octyl phthalate	NELAP	0.125	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Hexachlorobenzene	NELAP	0.118	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Hexachlorobutadiene	NELAP	0.186	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Hexachlorocyclopentadiene	NELAP	0.122	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Hexachloroethane	NELAP	0.2	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Isophorone	NELAP	0.141	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
m,p-Cresol	NELAP	0.151	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Nitrobenzene	NELAP	0.15	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
N-Nitroso-di-n-propylamine	NELAP	0.132	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
N-Nitrosodiphenylamine	NELAP	0.11	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
o-Cresol	NELAP	0.141	0.6		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Pentachlorophenol	NELAP	0.791	2.4		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Phenol	NELAP	0.139	0.42		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/01/2013 21:27	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		71.1	%REC	1	09/01/2013 21:27	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		58.2	%REC	1	09/01/2013 21:27	91506
Surr: 2-Fluorophenol		0	30.5-99		60.4	%REC	1	09/01/2013 21:27	91506
Surr: Nitrobenzene-d5		0	34.1-101		69.7	%REC	1	09/01/2013 21:27	91506
Surr: Phenol-d5		0	34.9-110		62.9	%REC	1	09/01/2013 21:27	91506
Surr: p-Terphenyl-d14		0	41.7-124		68.1	%REC	1	09/01/2013 21:27	91506

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
2-Butanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
2-Hexanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
4-Methyl-2-pentanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Acetone	NELAP	0.0092	0.046	J	0.037	mg/Kg-dry	1	09/03/2013 11:59	91590
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/03/2013 11:59	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-009

Client Sample ID: 1467V-6-B04-2

Matrix: SOLID

Collection Date: 08/27/2013 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Ethylbenzene	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/03/2013 11:59	91590
m,p-Xylenes	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 11:59	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Toluene	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 11:59	91590
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Vinyl acetate	NELAP	0.0183	0.046		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 11:59	91590
Xylenes, Total	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 11:59	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.8	%REC	1	09/03/2013 11:59	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		113.5	%REC	1	09/03/2013 11:59	91590
Surr: Dibromofluoromethane		0	77.7-120		99.7	%REC	1	09/03/2013 11:59	91590
Surr: Toluene-d8		0	86-116		103.3	%REC	1	09/03/2013 11:59	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-010

Client Sample ID: 1467V-6-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 8:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14.4	%	1	08/29/2013 13:54	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		85.6	%	1	08/29/2013 13:54	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.05		1	08/30/2013 9:19	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Lead	NELAP	0.006	0.007		0.0084	mg/L	1	09/09/2013 14:07	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0499	mg/L	1	09/05/2013 9:57	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 9:57	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 9:57	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 9:57	91626
Chromium	NELAP	0.004	0.01	J	0.0055	mg/L	1	09/05/2013 9:57	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 9:57	91626
Iron	NELAP	0.007	0.02		3.51	mg/L	1	09/05/2013 9:57	91626
Lead	NELAP	0.006	0.007	X	0.0095	mg/L	1	09/05/2013 9:57	91626
Manganese	NELAP	0.0016	0.005		0.0229	mg/L	1	09/05/2013 9:57	91626
Nickel	NELAP	0.0033	0.01	J	0.0039	mg/L	1	09/05/2013 9:57	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 9:57	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 9:57	91626
Zinc	NELAP	0.0021	0.01		0.0162	mg/L	1	09/05/2013 9:57	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:12	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:29	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 13:46	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		15400	mg/Kg-dry	1	09/03/2013 19:27	91503
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 22:54	91527
Arsenic	NELAP	1.25	2.5		6.91	mg/Kg-dry	1	09/03/2013 19:27	91503
Barium	NELAP	0.25	0.5		130	mg/Kg-dry	1	09/03/2013 19:27	91503
Beryllium	NELAP	0.05	0.1		0.73	mg/Kg-dry	1	09/03/2013 19:27	91503
Boron	NELAP	1	2		9.44	mg/Kg-dry	1	09/03/2013 19:27	91503
Cadmium	NELAP	0.1	0.2	J	0.13	mg/Kg-dry	1	09/03/2013 19:27	91503
Calcium	NELAP	2.5	5		35200	mg/Kg-dry	1	09/03/2013 19:27	91503
Chromium	NELAP	0.5	1	X	22.2	mg/Kg-dry	1	09/03/2013 19:27	91503
Cobalt	NELAP	0.5	1		8.39	mg/Kg-dry	1	09/03/2013 19:27	91503
Copper	NELAP	0.5	1		20.2	mg/Kg-dry	1	09/03/2013 19:27	91503
Iron	NELAP	1	2	X	20500	mg/Kg-dry	1	09/03/2013 19:27	91503
Lead	NELAP	2	4		74.3	mg/Kg-dry	1	09/03/2013 19:27	91503
Magnesium	NELAP	0.5	1		18400	mg/Kg-dry	1	09/03/2013 19:27	91503
Manganese	NELAP	0.25	0.5		579	mg/Kg-dry	1	09/03/2013 19:27	91503
Nickel	NELAP	0.5	1		20.2	mg/Kg-dry	1	09/03/2013 19:27	91503
Potassium	NELAP	5	10		2320	mg/Kg-dry	1	09/03/2013 19:27	91503
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/03/2013 19:27	91503



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-010

Client Sample ID: 1467V-6-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 8:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.5	5		166	mg/Kg-dry	1	09/03/2013 19:27	91503
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/03/2013 19:27	91503
Vanadium	NELAP	0.5	1		33.8	mg/Kg-dry	1	09/03/2013 19:27	91503
Zinc	NELAP	0.5	1		60.4	mg/Kg-dry	1	09/03/2013 19:27	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/03/2013 10:20	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.028	mg/Kg-dry	1	08/30/2013 13:10	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
1,2-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
1,3-Dichlorobenzene	NELAP	0.195	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
1,4-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4,5-Trichlorophenol	NELAP	0.11	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4,6-Trichlorophenol	NELAP	0.146	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4-Dichlorophenol	NELAP	0.14	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4-Dimethylphenol	NELAP	0.147	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,4-Dinitrotoluene	NELAP	0.121	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2,6-Dinitrotoluene	NELAP	0.125	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2-Chloronaphthalene	NELAP	0.139	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2-Chlorophenol	NELAP	0.147	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2-Methylnaphthalene	NELAP	0.138	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2-Nitroaniline	NELAP	0.106	1.16		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
2-Nitrophenol	NELAP	0.13	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
3,3'-Dichlorobenzidine	NELAP	0.232	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Bromophenyl phenyl ether	NELAP	0.107	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Chloro-3-methylphenol	NELAP	0.128	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Chloroaniline	NELAP	0.14	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Chlorophenyl phenyl ether	NELAP	0.115	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Nitroaniline	NELAP	0.106	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
4-Nitrophenol	NELAP	0.114	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Benzo(b)fluoranthene	NELAP	0.019	0.039		0.04	mg/Kg-dry	1	09/04/2013 2:43	91506
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Bis(2-chloroethoxy)methane	NELAP	0.136	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Bis(2-chloroethyl)ether	NELAP	0.165	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-010

Client Sample ID: 1467V-6-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 8:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.117	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Carbazole		0.142	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Chrysene	NELAP	0.019	0.039	J	0.036	mg/Kg-dry	1	09/04/2013 2:43	91506
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Dibenzofuran	NELAP	0.146	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Diethyl phthalate	NELAP	0.111	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Dimethyl phthalate	NELAP	0.106	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Di-n-butyl phthalate	NELAP	0.12	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Di-n-octyl phthalate	NELAP	0.121	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Fluoranthene	NELAP	0.019	0.039		0.08	mg/Kg-dry	1	09/04/2013 2:43	91506
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Hexachlorobenzene	NELAP	0.114	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Hexachlorobutadiene	NELAP	0.18	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Hexachlorocyclopentadiene	NELAP	0.118	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Hexachloroethane	NELAP	0.194	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Isophorone	NELAP	0.137	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
m,p-Cresol	NELAP	0.146	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Nitrobenzene	NELAP	0.145	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
N-Nitroso-di-n-propylamine	NELAP	0.128	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
N-Nitrosodiphenylamine	NELAP	0.107	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
o-Cresol	NELAP	0.137	0.581		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Pentachlorophenol	NELAP	0.766	2.32		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Phenanthrene	NELAP	0.019	0.039		0.048	mg/Kg-dry	1	09/04/2013 2:43	91506
Phenol	NELAP	0.135	0.406		ND	mg/Kg-dry	1	09/04/2013 2:43	91506
Pyrene	NELAP	0.019	0.039		0.054	mg/Kg-dry	1	09/04/2013 2:43	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		70	%REC	1	09/04/2013 2:43	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		66.7	%REC	1	09/04/2013 2:43	91506
Surr: 2-Fluorophenol		0	30.5-99		64.3	%REC	1	09/04/2013 2:43	91506
Surr: Nitrobenzene-d5		0	34.1-101		74.7	%REC	1	09/04/2013 2:43	91506
Surr: Phenol-d5		0	34.9-110		71.2	%REC	1	09/04/2013 2:43	91506
Surr: p-Terphenyl-d14		0	41.7-124		90.7	%REC	1	09/04/2013 2:43	91506
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
2-Butanone	NELAP	0.0095	0.048		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
2-Hexanone	NELAP	0.0095	0.048		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
4-Methyl-2-pentanone	NELAP	0.0095	0.048		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Acetone	NELAP	0.0095	0.048	J	0.022	mg/Kg-dry	1	09/03/2013 12:25	91590
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/03/2013 12:25	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-010

Client Sample ID: 1467V-6-B05-1

Matrix: SOLID

Collection Date: 08/27/2013 8:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Bromomethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Chloroethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Chloromethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Ethylbenzene	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/03/2013 12:25	91590
m,p-Xylenes	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 12:25	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Toluene	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	09/03/2013 12:25	91590
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Vinyl acetate	NELAP	0.0191	0.048		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 12:25	91590
Xylenes, Total	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 12:25	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104.7	%REC	1	09/03/2013 12:25	91590
Surr: 4-Bromofluorobenzene		0	82.1-116	S	119.2	%REC	1	09/03/2013 12:25	91590
Surr: Dibromofluoromethane		0	77.7-120		99.5	%REC	1	09/03/2013 12:25	91590
Surr: Toluene-d8		0	86-116		104.3	%REC	1	09/03/2013 12:25	91590

Surrogate recovery is outside QC limits due to matrix interference.

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-011

Client Sample ID: 1467V-6-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 8:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		25	%	1	08/29/2013 13:54	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		75	%	1	08/29/2013 13:54	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.22		1	08/30/2013 9:21	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0441	mg/L	1	09/09/2013 14:13	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.106	mg/L	1	09/05/2013 10:01	91626
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/05/2013 10:01	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:01	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:01	91626
Chromium	NELAP	0.004	0.01		0.0172	mg/L	1	09/05/2013 10:01	91626
Cobalt	NELAP	0.0022	0.01	J	0.005	mg/L	1	09/05/2013 10:01	91626
Iron	NELAP	0.007	0.02	X	19.7	mg/L	1	09/05/2013 10:01	91626
Lead	NELAP	0.006	0.007		0.0071	mg/L	1	09/05/2013 12:22	91626
Manganese	NELAP	0.0016	0.005		0.0582	mg/L	1	09/05/2013 10:01	91626
Nickel	NELAP	0.0033	0.01		0.0144	mg/L	1	09/05/2013 10:01	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:01	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:01	91626
Zinc	NELAP	0.0021	0.01		0.0314	mg/L	1	09/05/2013 10:01	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:17	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:32	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 13:48	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		13400	mg/Kg-dry	1	09/03/2013 19:34	91503
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 22:58	91527
Arsenic	NELAP	1.16	2.31		7.87	mg/Kg-dry	1	09/03/2013 19:34	91503
Barium	NELAP	0.23	0.46		112	mg/Kg-dry	1	09/03/2013 19:34	91503
Beryllium	NELAP	0.05	0.09		0.6	mg/Kg-dry	1	09/03/2013 19:34	91503
Boron	NELAP	0.93	1.85		4.63	mg/Kg-dry	1	09/03/2013 19:34	91503
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 19:34	91503
Calcium	NELAP	2.31	4.63		30400	mg/Kg-dry	1	09/03/2013 19:34	91503
Chromium	NELAP	0.46	0.93	X	21.1	mg/Kg-dry	1	09/03/2013 19:34	91503
Cobalt	NELAP	0.46	0.93		6.21	mg/Kg-dry	1	09/03/2013 19:34	91503
Copper	NELAP	0.46	0.93		15.5	mg/Kg-dry	1	09/03/2013 19:34	91503
Iron	NELAP	0.93	1.85	X	19600	mg/Kg-dry	1	09/03/2013 19:34	91503
Lead	NELAP	1.85	3.7		11	mg/Kg-dry	1	09/03/2013 19:34	91503
Magnesium	NELAP	0.46	0.93		18300	mg/Kg-dry	1	09/03/2013 19:34	91503
Manganese	NELAP	0.23	0.46		174	mg/Kg-dry	1	09/03/2013 19:34	91503
Nickel	NELAP	0.46	0.93		18.1	mg/Kg-dry	1	09/03/2013 19:34	91503
Potassium	NELAP	4.63	9.26		1410	mg/Kg-dry	1	09/03/2013 19:34	91503
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/03/2013 19:34	91503



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-011

Client Sample ID: 1467V-6-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 8:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.31	4.63		1230	mg/Kg-dry	1	09/03/2013 19:34	91503
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/03/2013 19:34	91503
Vanadium	NELAP	0.46	0.93		42.4	mg/Kg-dry	1	09/03/2013 19:34	91503
Zinc	NELAP	0.46	0.93		46.9	mg/Kg-dry	1	09/03/2013 19:34	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/03/2013 10:23	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.038	mg/Kg-dry	1	08/30/2013 13:12	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.176	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
1,2-Dichlorobenzene	NELAP	0.21	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
1,3-Dichlorobenzene	NELAP	0.222	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
1,4-Dichlorobenzene	NELAP	0.21	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4,5-Trichlorophenol	NELAP	0.126	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4,6-Trichlorophenol	NELAP	0.167	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4-Dichlorophenol	NELAP	0.16	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4-Dimethylphenol	NELAP	0.168	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4-Dinitrophenol	NELAP	0.141	1.32		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,4-Dinitrotoluene	NELAP	0.137	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2,6-Dinitrotoluene	NELAP	0.143	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2-Chloronaphthalene	NELAP	0.159	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2-Chlorophenol	NELAP	0.168	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2-Methylnaphthalene	NELAP	0.157	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2-Nitroaniline	NELAP	0.12	1.32		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
2-Nitrophenol	NELAP	0.148	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
3,3'-Dichlorobenzidine	NELAP	0.264	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
3-Nitroaniline	NELAP	0.108	1.32		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4,6-Dinitro-2-methylphenol	NELAP	0.143	1.32		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Bromophenyl phenyl ether	NELAP	0.122	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Chloro-3-methylphenol	NELAP	0.145	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Chloroaniline	NELAP	0.16	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Chlorophenyl phenyl ether	NELAP	0.131	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Nitroaniline	NELAP	0.12	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
4-Nitrophenol	NELAP	0.13	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Acenaphthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Acenaphthylene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Benzo(a)anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Benzo(a)pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Benzo(b)fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Benzo(g,h,i)perylene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Benzo(k)fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Bis(2-chloroethoxy)methane	NELAP	0.155	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Bis(2-chloroethyl)ether	NELAP	0.188	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Bis(2-chloroisopropyl)ether	NELAP	0.151	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.155	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-011

Client Sample ID: 1467V-6-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 8:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.133	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Carbazole		0.161	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Chrysene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Dibenzo(a,h)anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Dibenzofuran	NELAP	0.167	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Diethyl phthalate	NELAP	0.127	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Dimethyl phthalate	NELAP	0.12	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Di-n-butyl phthalate	NELAP	0.136	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Di-n-octyl phthalate	NELAP	0.137	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Fluorene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Hexachlorobenzene	NELAP	0.13	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Hexachlorobutadiene	NELAP	0.205	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Hexachlorocyclopentadiene	NELAP	0.135	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Hexachloroethane	NELAP	0.221	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Isophorone	NELAP	0.156	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
m,p-Cresol	NELAP	0.167	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Naphthalene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Nitrobenzene	NELAP	0.165	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
N-Nitroso-di-n-propylamine	NELAP	0.145	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
N-Nitrosodiphenylamine	NELAP	0.122	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
o-Cresol	NELAP	0.156	0.661		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Pentachlorophenol	NELAP	0.872	2.64		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Phenanthrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Phenol	NELAP	0.153	0.463		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/01/2013 21:59	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.1	%REC	1	09/01/2013 21:59	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		60.4	%REC	1	09/01/2013 21:59	91506
Surr: 2-Fluorophenol		0	30.5-99		63.8	%REC	1	09/01/2013 21:59	91506
Surr: Nitrobenzene-d5		0	34.1-101		75.8	%REC	1	09/01/2013 21:59	91506
Surr: Phenol-d5		0	34.9-110		65.3	%REC	1	09/01/2013 21:59	91506
Surr: p-Terphenyl-d14		0	41.7-124		65.5	%REC	1	09/01/2013 21:59	91506
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,1,1,2,2-Tetrachloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,1,2-Trichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,1-Dichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,1-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,2-Dichloroethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,2-Dichloropropane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
1,3-Dichloropropene, Total		0.0011	0.005		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
2-Butanone	NELAP	0.0113	0.056		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
2-Hexanone	NELAP	0.0113	0.056		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
4-Methyl-2-pentanone	NELAP	0.0113	0.056		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Acetone	NELAP	0.0113	0.056		0.109	mg/Kg-dry	1	09/03/2013 12:51	91590
Benzene	NELAP	0.0006	0.001		ND	mg/Kg-dry	1	09/03/2013 12:51	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081491

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081491-011

Client Sample ID: 1467V-6-B05-2

Matrix: SOLID

Collection Date: 08/27/2013 8:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Bromoform	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Bromomethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Carbon disulfide	NELAP	0.0034	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Carbon tetrachloride	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Chlorobenzene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Chloroethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Chloroform	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Chloromethane	NELAP	0.0023	0.011		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
cis-1,2-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
cis-1,3-Dichloropropene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Dibromochloromethane	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Ethylbenzene	NELAP	0.0011	0.006	J	0.002	mg/Kg-dry	1	09/03/2013 12:51	91590
m,p-Xylenes	NELAP	0.0011	0.006	J	0.003	mg/Kg-dry	1	09/03/2013 12:51	91590
Methyl tert-butyl ether	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Methylene chloride	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
o-Xylene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Styrene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Tetrachloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Toluene	NELAP	0.0011	0.006	J	0.002	mg/Kg-dry	1	09/03/2013 12:51	91590
trans-1,2-Dichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
trans-1,3-Dichloropropene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Trichloroethene	NELAP	0.0011	0.006		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Vinyl acetate	NELAP	0.0225	0.056		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Vinyl chloride	NELAP	0.0006	0.002		ND	mg/Kg-dry	1	09/03/2013 12:51	91590
Xylenes, Total	NELAP	0.0011	0.006	J	0.003	mg/Kg-dry	1	09/03/2013 12:51	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		114	%REC	1	09/03/2013 12:51	91590
Surr: 4-Bromofluorobenzene		0	82.1-116	S	129.5	%REC	1	09/03/2013 12:51	91590
Surr: Dibromofluoromethane		0	77.7-120		103.2	%REC	1	09/03/2013 12:51	91590
Surr: Toluene-d8		0	86-116		110.7	%REC	1	09/03/2013 12:51	91590

Surrogate recovery is outside QC limits due to matrix interference.

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Pingree Stone Lane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:		COC No.: <u>1</u> of <u>1</u> Lab Job No.: Sample Temp: <u>4.6, 11.1</u> Matrix Key:										
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13081491-001	1467V-6-B01-1	8-27-13	9:05AM	S	X	X					X	X	X	X		0-7.5
002	1467V-6-B01-2	8-27-13	9:10AM													7.5-15
003	1467V-6-B02-1	8-27-13	10:00AM													0-5
004	1467V-6-B02-2	8-27-13	10:05AM													5-10
005	1467V-6-B03-1	8-27-13	8:31AM													0-5
006	1467V-6-B03-1 DUP	8-27-13	8:40AM													0-5
007	1467V-6-B03-2	8-27-13	8:45AM													5-10
008	1467V-6-B04-1	8-27-13	9:40AM													0-5
009	1467V-6-B04-2	8-27-13	9:45AM													5-10
010	1467V-6-B05-1	8-27-13	8:50AM													0-5
011	1467V-6-B05-2	8-27-13	8:55AM	S	X	X					X	X	X	X		5-10
Relinquished by: <u>[Signature]</u>					Date/Time	8-27-13 4:48PM										
Relinquished by: <u>[Signature]</u>					Date/Time	8-28-13 6:30AM										
Relinquished by: <u>[Signature]</u>					Date/Time	8-28-13 6:30AM										



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

43W200 block of IL 72

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08856 Longitude: -88.45453
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction

Latitude: 42.08856 Longitude: -88.45453

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-7-B02 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 1467V-7. SEE FIGURES 3 AND 5 AND TABLE 3g OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081492

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

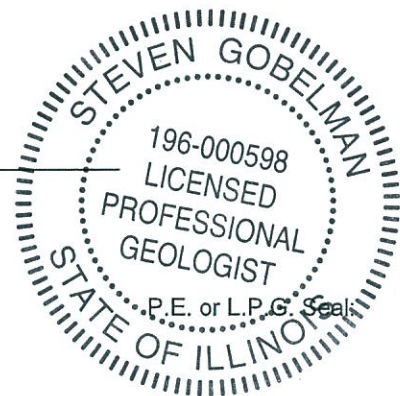
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/19
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-7

Tyler Creek

Sample ID	1467V-7-B02-1	1467V-7-B02-2	1467V-7-B03-1	1467V-7-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4.5	4.5-9	0-4.5	4.5-9						
Sample Date	8/27/2013	8/27/2013	8/27/2013	8/27/2013						
PID	0	0	0	0						
Sample pH	7.9	8.4	8.59	8.12						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

September 10, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081492

Dear Colleen Grey:

TEKLAB, INC received 8 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-003

Client Sample ID: 1467V-7-B02-1

Matrix: SOLID

Collection Date: 08/27/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.2	%	1	08/29/2013 16:46	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.8	%	1	08/29/2013 16:46	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.9		1	08/30/2013 9:26	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.25	mg/L	1	09/09/2013 14:19	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0801	mg/L	1	09/05/2013 10:26	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 10:26	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:26	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:26	91626
Chromium	NELAP	0.004	0.01		0.0133	mg/L	1	09/05/2013 10:26	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 10:26	91626
Iron	NELAP	0.007	0.02	X	8.58	mg/L	1	09/05/2013 10:26	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 10:26	91626
Manganese	NELAP	0.0016	0.005		0.024	mg/L	1	09/05/2013 10:26	91626
Nickel	NELAP	0.0033	0.01	J	0.0052	mg/L	1	09/05/2013 10:26	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:26	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:26	91626
Zinc	NELAP	0.0021	0.01		0.0276	mg/L	1	09/05/2013 10:26	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:42	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002	J	0.0006	mg/L	1	09/06/2013 8:43	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:13	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		18700	mg/Kg-dry	1	09/03/2013 21:17	91509
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/03/2013 23:49	91538
Arsenic	NELAP	1.23	2.45		10.4	mg/Kg-dry	1	09/03/2013 21:17	91509
Barium	NELAP	0.25	0.49		157	mg/Kg-dry	1	09/03/2013 21:17	91509
Beryllium	NELAP	0.05	0.1		0.86	mg/Kg-dry	1	09/03/2013 21:17	91509
Boron	NELAP	0.98	1.96		5.15	mg/Kg-dry	1	09/03/2013 21:17	91509
Cadmium	NELAP	0.1	0.2	J	0.16	mg/Kg-dry	1	09/03/2013 21:17	91509
Calcium	NELAP	2.45	4.9		5620	mg/Kg-dry	1	09/03/2013 21:17	91509
Chromium	NELAP	0.49	0.98	X	26.7	mg/Kg-dry	1	09/03/2013 21:17	91509
Cobalt	NELAP	0.49	0.98		8.69	mg/Kg-dry	1	09/03/2013 21:17	91509
Copper	NELAP	0.49	0.98		17.5	mg/Kg-dry	1	09/03/2013 21:17	91509
Iron	NELAP	0.98	1.96	X	21800	mg/Kg-dry	1	09/03/2013 21:17	91509
Lead	NELAP	1.96	3.92		18.4	mg/Kg-dry	1	09/03/2013 21:17	91509
Magnesium	NELAP	0.49	0.98		4930	mg/Kg-dry	1	09/03/2013 21:17	91509
Manganese	NELAP	0.25	0.49		568	mg/Kg-dry	1	09/03/2013 21:17	91509
Nickel	NELAP	0.49	0.98		23.5	mg/Kg-dry	1	09/03/2013 21:17	91509
Potassium	NELAP	4.9	9.8		1670	mg/Kg-dry	1	09/03/2013 21:17	91509
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/03/2013 21:17	91509

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-003

Client Sample ID: 1467V-7-B02-1

Matrix: SOLID

Collection Date: 08/27/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		391	mg/Kg-dry	1	09/03/2013 21:17	91509
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/03/2013 21:17	91509
Vanadium	NELAP	0.49	0.98		42.8	mg/Kg-dry	1	09/03/2013 21:17	91509
Zinc	NELAP	0.49	0.98		63	mg/Kg-dry	1	09/03/2013 21:17	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/03/2013 14:52	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.061	mg/Kg-dry	1	08/30/2013 13:19	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.169	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
1,2-Dichlorobenzene	NELAP	0.202	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
1,3-Dichlorobenzene	NELAP	0.214	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
1,4-Dichlorobenzene	NELAP	0.202	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4,5-Trichlorophenol	NELAP	0.121	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4,6-Trichlorophenol	NELAP	0.16	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4-Dichlorophenol	NELAP	0.154	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4-Dimethylphenol	NELAP	0.161	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4-Dinitrophenol	NELAP	0.136	1.27		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,4-Dinitrotoluene	NELAP	0.132	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2,6-Dinitrotoluene	NELAP	0.137	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2-Chloronaphthalene	NELAP	0.153	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2-Chlorophenol	NELAP	0.161	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2-Methylnaphthalene	NELAP	0.151	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2-Nitroaniline	NELAP	0.116	1.27		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
2-Nitrophenol	NELAP	0.142	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
3,3'-Dichlorobenzidine	NELAP	0.254	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
3-Nitroaniline	NELAP	0.104	1.27		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4,6-Dinitro-2-methylphenol	NELAP	0.137	1.27		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Bromophenyl phenyl ether	NELAP	0.117	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Chloro-3-methylphenol	NELAP	0.14	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Chloroaniline	NELAP	0.154	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Chlorophenyl phenyl ether	NELAP	0.126	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Nitroaniline	NELAP	0.116	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
4-Nitrophenol	NELAP	0.125	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Bis(2-chloroethoxy)methane	NELAP	0.149	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Bis(2-chloroethyl)ether	NELAP	0.18	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Bis(2-chloroisopropyl)ether	NELAP	0.145	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Bis(2-ethylhexyl)phthalate	NELAP	0.149	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-003

Client Sample ID: 1467V-7-B02-1

Matrix: SOLID

Collection Date: 08/27/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.128	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Carbazole		0.155	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Dibenzofuran	NELAP	0.16	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Diethyl phthalate	NELAP	0.122	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Dimethyl phthalate	NELAP	0.116	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Di-n-butyl phthalate	NELAP	0.131	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Di-n-octyl phthalate	NELAP	0.132	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Hexachlorobenzene	NELAP	0.125	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Hexachlorobutadiene	NELAP	0.197	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Hexachlorocyclopentadiene	NELAP	0.13	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Hexachloroethane	NELAP	0.212	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Isophorone	NELAP	0.15	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
m,p-Cresol	NELAP	0.16	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Nitrobenzene	NELAP	0.159	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
N-Nitroso-di-n-propylamine	NELAP	0.14	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
N-Nitrosodiphenylamine	NELAP	0.117	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
o-Cresol	NELAP	0.15	0.636		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Pentachlorophenol	NELAP	0.839	2.54		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Phenol	NELAP	0.147	0.445		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/01/2013 23:37	91506
Surr: 2,4,6-Tribromophenol		0	32.7-130		67.3	%REC	1	09/01/2013 23:37	91506
Surr: 2-Fluorobiphenyl		0	34.1-116		42.5	%REC	1	09/01/2013 23:37	91506
Surr: 2-Fluorophenol		0	30.5-99		61	%REC	1	09/01/2013 23:37	91506
Surr: Nitrobenzene-d5		0	34.1-101		58.4	%REC	1	09/01/2013 23:37	91506
Surr: Phenol-d5		0	34.9-110		61.1	%REC	1	09/01/2013 23:37	91506
Surr: p-Terphenyl-d14		0	41.7-124		63.6	%REC	1	09/01/2013 23:37	91506
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
2-Butanone	NELAP	0.0086	0.043		0.067	mg/Kg-dry	1	09/03/2013 14:10	91590
2-Hexanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
4-Methyl-2-pentanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Acetone	NELAP	0.0086	0.043		0.153	mg/Kg-dry	1	09/03/2013 14:10	91590
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/03/2013 14:10	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-003

Client Sample ID: 1467V-7-B02-1

Matrix: SOLID

Collection Date: 08/27/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
m,p-Xylenes	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 14:10	91590
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Toluene	NELAP	0.0009	0.004	J	0.003	mg/Kg-dry	1	09/03/2013 14:10	91590
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Vinyl acetate	NELAP	0.0171	0.043		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 14:10	91590
Xylenes, Total	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 14:10	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		115.4	%REC	1	09/03/2013 14:10	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		106.7	%REC	1	09/03/2013 14:10	91590
Surr: Dibromofluoromethane		0	77.7-120		102.9	%REC	1	09/03/2013 14:10	91590
Surr: Toluene-d8		0	86-116		100.6	%REC	1	09/03/2013 14:10	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-004

Client Sample ID: 1467V-7-B02-2

Matrix: SOLID

Collection Date: 08/27/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14.6	%	1	08/29/2013 16:47	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		85.4	%	1	08/29/2013 16:47	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.4		1	08/30/2013 9:28	R181279
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0143	mg/L	1	09/05/2013 10:30	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 10:30	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:30	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:30	91626
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/05/2013 10:30	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 10:30	91626
Iron	NELAP	0.007	0.02		0.879	mg/L	1	09/05/2013 10:30	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 10:30	91626
Manganese	NELAP	0.0016	0.005		0.0079	mg/L	1	09/05/2013 10:30	91626
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/05/2013 10:30	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:30	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:30	91626
Zinc	NELAP	0.0021	0.01	J	0.0054	mg/L	1	09/05/2013 10:30	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:46	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:53	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:15	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		3380	mg/Kg-dry	1	09/03/2013 21:24	91509
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/03/2013 23:53	91538
Arsenic	NELAP	1.16	2.31	J	2.09	mg/Kg-dry	1	09/03/2013 21:24	91509
Barium	NELAP	0.23	0.46		21.9	mg/Kg-dry	1	09/03/2013 21:24	91509
Beryllium	NELAP	0.05	0.09		0.19	mg/Kg-dry	1	09/03/2013 21:24	91509
Boron	NELAP	0.93	1.85		5.16	mg/Kg-dry	1	09/03/2013 21:24	91509
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 21:24	91509
Calcium	NELAP	2.31	4.63		96000	mg/Kg-dry	1	09/03/2013 21:24	91509
Chromium	NELAP	0.46	0.93		6.86	mg/Kg-dry	1	09/03/2013 21:24	91509
Cobalt	NELAP	0.46	0.93		2.74	mg/Kg-dry	1	09/03/2013 21:24	91509
Copper	NELAP	0.46	0.93		7.23	mg/Kg-dry	1	09/03/2013 21:24	91509
Iron	NELAP	0.93	1.85		9310	mg/Kg-dry	1	09/03/2013 21:24	91509
Lead	NELAP	1.85	3.7		3.74	mg/Kg-dry	1	09/04/2013 17:42	91509
Magnesium	NELAP	0.46	0.93		47800	mg/Kg-dry	1	09/03/2013 21:24	91509
Manganese	NELAP	0.23	0.46		274	mg/Kg-dry	1	09/03/2013 21:24	91509
Nickel	NELAP	0.46	0.93		6.27	mg/Kg-dry	1	09/03/2013 21:24	91509
Potassium	NELAP	4.63	9.26		765	mg/Kg-dry	1	09/03/2013 21:24	91509
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/03/2013 21:24	91509
Sodium	NELAP	2.31	4.63		225	mg/Kg-dry	1	09/03/2013 21:24	91509
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/03/2013 21:24	91509

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-004

Client Sample ID: 1467V-7-B02-2

Matrix: SOLID

Collection Date: 08/27/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.46	0.93		15.2	mg/Kg-dry	1	09/03/2013 21:24	91509
Zinc	NELAP	0.46	0.93		15.9	mg/Kg-dry	1	09/03/2013 21:24	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/03/2013 14:55	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.004	mg/Kg-dry	1	08/30/2013 13:21	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.156	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
1,2-Dichlorobenzene	NELAP	0.186	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
1,3-Dichlorobenzene	NELAP	0.197	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
1,4-Dichlorobenzene	NELAP	0.186	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4,5-Trichlorophenol	NELAP	0.111	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4,6-Trichlorophenol	NELAP	0.148	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4-Dichlorophenol	NELAP	0.142	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4-Dimethylphenol	NELAP	0.149	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4-Dinitrophenol	NELAP	0.125	1.17		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,4-Dinitrotoluene	NELAP	0.122	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2,6-Dinitrotoluene	NELAP	0.127	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2-Chloronaphthalene	NELAP	0.141	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2-Chlorophenol	NELAP	0.149	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2-Methylnaphthalene	NELAP	0.139	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2-Nitroaniline	NELAP	0.107	1.17		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
2-Nitrophenol	NELAP	0.131	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
3,3'-Dichlorobenzidine	NELAP	0.234	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
3-Nitroaniline	NELAP	0.096	1.17		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4,6-Dinitro-2-methylphenol	NELAP	0.127	1.17		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Bromophenyl phenyl ether	NELAP	0.108	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Chloro-3-methylphenol	NELAP	0.129	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Chloroaniline	NELAP	0.142	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Chlorophenyl phenyl ether	NELAP	0.116	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Nitroaniline	NELAP	0.107	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
4-Nitrophenol	NELAP	0.115	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Acenaphthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Acenaphthylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Benzo(a)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Benzo(a)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Benzo(b)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Benzo(g,h,i)perylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Benzo(k)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Bis(2-chloroethoxy)methane	NELAP	0.137	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Bis(2-chloroethyl)ether	NELAP	0.166	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Bis(2-chloroisopropyl)ether	NELAP	0.134	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.137	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Butyl benzyl phthalate	NELAP	0.118	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Carbazole		0.143	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-004

Client Sample ID: 1467V-7-B02-2

Matrix: SOLID

Collection Date: 08/27/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Dibenzo(a,h)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Dibenzofuran	NELAP	0.148	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Diethyl phthalate	NELAP	0.112	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Dimethyl phthalate	NELAP	0.107	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Di-n-butyl phthalate	NELAP	0.121	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Di-n-octyl phthalate	NELAP	0.122	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Fluorene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Hexachlorobenzene	NELAP	0.115	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Hexachlorobutadiene	NELAP	0.182	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Hexachlorocyclopentadiene	NELAP	0.12	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Hexachloroethane	NELAP	0.196	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Isophorone	NELAP	0.138	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
m,p-Cresol	NELAP	0.148	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Naphthalene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Nitrobenzene	NELAP	0.146	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
N-Nitroso-di-n-propylamine	NELAP	0.129	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
N-Nitrosodiphenylamine	NELAP	0.108	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
o-Cresol	NELAP	0.138	0.586		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Pentachlorophenol	NELAP	0.773	2.34		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Phenanthrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Phenol	NELAP	0.136	0.41		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	08/31/2013 4:37	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.4	%REC	1	08/31/2013 4:37	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		61.3	%REC	1	08/31/2013 4:37	91529
Surr: 2-Fluorophenol		0	30.5-99		54.8	%REC	1	08/31/2013 4:37	91529
Surr: Nitrobenzene-d5		0	34.1-101		65.6	%REC	1	08/31/2013 4:37	91529
Surr: Phenol-d5		0	34.9-110		58.3	%REC	1	08/31/2013 4:37	91529
Surr: p-Terphenyl-d14		0	41.7-124		65.7	%REC	1	08/31/2013 4:37	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,1,2-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,1-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,1-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,2-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,2-Dichloropropane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
2-Butanone	NELAP	0.0068	0.034		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
2-Hexanone	NELAP	0.0068	0.034		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
4-Methyl-2-pentanone	NELAP	0.0068	0.034		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Acetone	NELAP	0.0068	0.034	J	0.023	mg/Kg-dry	1	09/03/2013 14:36	91590
Benzene	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Bromodichloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-004

Client Sample ID: 1467V-7-B02-2

Matrix: SOLID

Collection Date: 08/27/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Carbon disulfide	NELAP	0.0021	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Carbon tetrachloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Chlorobenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Chloroform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
cis-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Dibromochloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Ethylbenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
m,p-Xylenes	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Methyl tert-butyl ether	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Methylene chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
o-Xylene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Styrene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Tetrachloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Toluene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
trans-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Trichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Vinyl acetate	NELAP	0.0137	0.034		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Vinyl chloride	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Xylenes, Total	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/03/2013 14:36	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.8	%REC	1	09/03/2013 14:36	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		113.7	%REC	1	09/03/2013 14:36	91590
Surr: Dibromofluoromethane		0	77.7-120		100.5	%REC	1	09/03/2013 14:36	91590
Surr: Toluene-d8		0	86-116		103.2	%REC	1	09/03/2013 14:36	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-005

Client Sample ID: 1467V-7-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		15.3	%	1	08/29/2013 16:47	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		84.7	%	1	08/29/2013 16:47	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.59		1	08/30/2013 9:29	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		1.09	mg/L	1	09/09/2013 14:25	91704
Lead	NELAP	0.006	0.007	J	0.0061	mg/L	1	09/09/2013 14:25	91704
Manganese	NELAP	0.0016	0.005		7.87	mg/L	1	09/09/2013 14:25	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.182	mg/L	1	09/05/2013 10:41	91626
Beryllium	NELAP	0.0003	0.001	J	0.0008	mg/L	1	09/05/2013 10:41	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:41	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:41	91626
Chromium	NELAP	0.004	0.01		0.0316	mg/L	1	09/05/2013 10:41	91626
Cobalt	NELAP	0.0022	0.01	J	0.0094	mg/L	1	09/05/2013 10:41	91626
Iron	NELAP	0.007	0.02	X	30.1	mg/L	1	09/05/2013 10:41	91626
Lead	NELAP	0.006	0.007	X	0.0196	mg/L	1	09/05/2013 10:41	91626
Manganese	NELAP	0.0016	0.005	X	0.404	mg/L	1	09/05/2013 10:41	91626
Nickel	NELAP	0.0033	0.01		0.0259	mg/L	1	09/05/2013 10:41	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:41	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:41	91626
Zinc	NELAP	0.0021	0.01		0.0658	mg/L	1	09/05/2013 10:41	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:50	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 8:56	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:17	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		18200	mg/Kg-dry	1	09/03/2013 21:30	91509
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/03/2013 23:57	91538
Arsenic	NELAP	1.18	2.36		8.99	mg/Kg-dry	1	09/03/2013 21:30	91509
Barium	NELAP	0.24	0.47		184	mg/Kg-dry	1	09/03/2013 21:30	91509
Beryllium	NELAP	0.05	0.09		0.79	mg/Kg-dry	1	09/03/2013 21:30	91509
Boron	NELAP	0.94	1.89		6.11	mg/Kg-dry	1	09/03/2013 21:30	91509
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 21:30	91509
Calcium	NELAP	2.36	4.72		22900	mg/Kg-dry	1	09/03/2013 21:30	91509
Chromium	NELAP	0.47	0.94	X	23.2	mg/Kg-dry	1	09/03/2013 21:30	91509
Cobalt	NELAP	0.47	0.94		7.38	mg/Kg-dry	1	09/03/2013 21:30	91509
Copper	NELAP	0.47	0.94		19.1	mg/Kg-dry	1	09/03/2013 21:30	91509
Iron	NELAP	0.94	1.89	X	24200	mg/Kg-dry	1	09/03/2013 21:30	91509
Lead	NELAP	1.89	3.77		11.6	mg/Kg-dry	1	09/03/2013 21:30	91509
Magnesium	NELAP	0.47	0.94		14700	mg/Kg-dry	1	09/03/2013 21:30	91509
Manganese	NELAP	0.24	0.47		484	mg/Kg-dry	1	09/03/2013 21:30	91509
Nickel	NELAP	0.47	0.94		20.9	mg/Kg-dry	1	09/03/2013 21:30	91509

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-005

Client Sample ID: 1467V-7-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Potassium	NELAP	4.72	9.43		1650	mg/Kg-dry	1	09/03/2013 21:30	91509
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/03/2013 21:30	91509
Sodium	NELAP	2.36	4.72		2480	mg/Kg-dry	1	09/03/2013 21:30	91509
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/03/2013 21:30	91509
Vanadium	NELAP	0.47	0.94		41.6	mg/Kg-dry	1	09/03/2013 21:30	91509
Zinc	NELAP	0.47	0.94		42.7	mg/Kg-dry	1	09/03/2013 21:30	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/03/2013 15:53	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.035	mg/Kg-dry	1	08/30/2013 13:28	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.792	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
1,2-Dichlorobenzene	NELAP	0.946	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
1,3-Dichlorobenzene	NELAP	1	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
1,4-Dichlorobenzene	NELAP	0.946	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4,5-Trichlorophenol	NELAP	0.565	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4,6-Trichlorophenol	NELAP	0.75	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4-Dichlorophenol	NELAP	0.72	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4-Dimethylphenol	NELAP	0.756	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4-Dinitrophenol	NELAP	0.637	5.95		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,4-Dinitrotoluene	NELAP	0.619	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2,6-Dinitrotoluene	NELAP	0.643	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2-Chloronaphthalene	NELAP	0.714	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2-Chlorophenol	NELAP	0.756	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2-Methylnaphthalene	NELAP	0.708	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2-Nitroaniline	NELAP	0.542	5.95		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
2-Nitrophenol	NELAP	0.667	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
3,3'-Dichlorobenzidine	NELAP	1.19	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
3-Nitroaniline	NELAP	0.488	5.95		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4,6-Dinitro-2-methylphenol	NELAP	0.643	5.95		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Bromophenyl phenyl ether	NELAP	0.548	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Chloro-3-methylphenol	NELAP	0.655	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Chloroaniline	NELAP	0.72	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Chlorophenyl phenyl ether	NELAP	0.589	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Nitroaniline	NELAP	0.542	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
4-Nitrophenol	NELAP	0.583	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Acenaphthene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Acenaphthylene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Anthracene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Benzo(a)anthracene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Benzo(a)pyrene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Benzo(b)fluoranthene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Benzo(g,h,i)perylene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Benzo(k)fluoranthene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Bis(2-chloroethoxy)methane	NELAP	0.696	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Bis(2-chloroethyl)ether	NELAP	0.845	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-005

Client Sample ID: 1467V-7-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-chloroisopropyl)ether	NELAP	0.678	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.696	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Butyl benzyl phthalate	NELAP	0.601	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Carbazole		0.726	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Chrysene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Dibenzo(a,h)anthracene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Dibenzofuran	NELAP	0.75	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Diethyl phthalate	NELAP	0.571	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Dimethyl phthalate	NELAP	0.542	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Di-n-butyl phthalate	NELAP	0.613	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Di-n-octyl phthalate	NELAP	0.619	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Fluoranthene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Fluorene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Hexachlorobenzene	NELAP	0.583	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Hexachlorobutadiene	NELAP	0.922	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Hexachlorocyclopentadiene	NELAP	0.607	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Hexachloroethane	NELAP	0.994	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Isophorone	NELAP	0.702	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
m,p-Cresol	NELAP	0.75	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Naphthalene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Nitrobenzene	NELAP	0.744	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
N-Nitroso-di-n-propylamine	NELAP	0.655	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
N-Nitrosodiphenylamine	NELAP	0.548	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
o-Cresol	NELAP	0.702	2.98		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Pentachlorophenol	NELAP	3.93	11.9		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Phenanthrene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Phenol	NELAP	0.69	2.08		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Pyrene	NELAP	0.099	0.202		ND	mg/Kg-dry	5	09/04/2013 1:38	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		75	%REC	5	09/04/2013 1:38	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		75.3	%REC	5	09/04/2013 1:38	91529
Surr: 2-Fluorophenol		0	30.5-99		76.2	%REC	5	09/04/2013 1:38	91529
Surr: Nitrobenzene-d5		0	34.1-101		81.8	%REC	5	09/04/2013 1:38	91529
Surr: Phenol-d5		0	34.9-110		79.2	%REC	5	09/04/2013 1:38	91529
Surr: p-Terphenyl-d14		0	41.7-124		91	%REC	5	09/04/2013 1:38	91529

Elevated reporting limit due to sample extract composition.

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
2-Butanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 15:03	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-005

Client Sample ID: 1467V-7-B03-1

Matrix: SOLID

Collection Date: 08/27/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2-Hexanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
4-Methyl-2-pentanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Acetone	NELAP	0.008	0.04	J	0.027	mg/Kg-dry	1	09/03/2013 15:03	91590
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/03/2013 15:03	91590
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 15:03	91590
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 15:03	91590
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Toluene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 15:03	91590
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Vinyl acetate	NELAP	0.016	0.04		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 15:03	91590
Xylenes, Total	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 15:03	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		112.5	%REC	1	09/03/2013 15:03	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		105.4	%REC	1	09/03/2013 15:03	91590
Surr: Dibromofluoromethane		0	77.7-120		102.5	%REC	1	09/03/2013 15:03	91590
Surr: Toluene-d8		0	86-116		100	%REC	1	09/03/2013 15:03	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-006

Client Sample ID: 1467V-7-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14.4	%	1	08/29/2013 16:47	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		85.6	%	1	08/29/2013 16:47	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.12		1	08/30/2013 9:30	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.166	mg/L	1	09/09/2013 14:31	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0531	mg/L	1	09/05/2013 10:45	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 10:45	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:45	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:45	91626
Chromium	NELAP	0.004	0.01		0.013	mg/L	1	09/05/2013 10:45	91626
Cobalt	NELAP	0.0022	0.01	J	0.0031	mg/L	1	09/05/2013 10:45	91626
Iron	NELAP	0.007	0.02	X	7.33	mg/L	1	09/05/2013 10:45	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 10:45	91626
Manganese	NELAP	0.0016	0.005		0.0845	mg/L	1	09/05/2013 10:45	91626
Nickel	NELAP	0.0033	0.01	J	0.0082	mg/L	1	09/05/2013 10:45	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:45	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:45	91626
Zinc	NELAP	0.0021	0.01		0.0243	mg/L	1	09/05/2013 10:45	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 9:54	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:00	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:19	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		7650	mg/Kg-dry	1	09/03/2013 21:48	91509
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/04/2013 0:00	91538
Arsenic	NELAP	1.2	2.4		3.87	mg/Kg-dry	1	09/04/2013 17:48	91509
Barium	NELAP	0.24	0.48		45.1	mg/Kg-dry	1	09/03/2013 21:48	91509
Beryllium	NELAP	0.05	0.1		0.4	mg/Kg-dry	1	09/03/2013 21:48	91509
Boron	NELAP	0.96	1.92		9.19	mg/Kg-dry	1	09/03/2013 21:48	91509
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 21:48	91509
Calcium	NELAP	2.4	4.81		54700	mg/Kg-dry	1	09/03/2013 21:48	91509
Chromium	NELAP	0.48	0.96		12.4	mg/Kg-dry	1	09/03/2013 21:48	91509
Cobalt	NELAP	0.48	0.96		4.63	mg/Kg-dry	1	09/03/2013 21:48	91509
Copper	NELAP	0.48	0.96		12.6	mg/Kg-dry	1	09/03/2013 21:48	91509
Iron	NELAP	0.96	1.92		12700	mg/Kg-dry	1	09/03/2013 21:48	91509
Lead	NELAP	1.92	3.85		6.19	mg/Kg-dry	1	09/03/2013 21:48	91509
Magnesium	NELAP	0.48	0.96		26100	mg/Kg-dry	1	09/03/2013 21:48	91509
Manganese	NELAP	0.24	0.48		327	mg/Kg-dry	1	09/03/2013 21:48	91509
Nickel	NELAP	0.48	0.96		12.8	mg/Kg-dry	1	09/03/2013 21:48	91509
Potassium	NELAP	4.81	9.62		1730	mg/Kg-dry	1	09/03/2013 21:48	91509
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/03/2013 21:48	91509

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-006

Client Sample ID: 1467V-7-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81		529	mg/Kg-dry	1	09/03/2013 21:48	91509
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/03/2013 21:48	91509
Vanadium	NELAP	0.48	0.96		19	mg/Kg-dry	1	09/03/2013 21:48	91509
Zinc	NELAP	0.48	0.96		30.2	mg/Kg-dry	1	09/03/2013 21:48	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/03/2013 15:06	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.009	mg/Kg-dry	1	08/30/2013 13:30	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.156	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
1,2-Dichlorobenzene	NELAP	0.186	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
1,3-Dichlorobenzene	NELAP	0.197	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
1,4-Dichlorobenzene	NELAP	0.186	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4,5-Trichlorophenol	NELAP	0.111	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4,6-Trichlorophenol	NELAP	0.147	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4-Dichlorophenol	NELAP	0.142	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4-Dimethylphenol	NELAP	0.149	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4-Dinitrophenol	NELAP	0.125	1.17		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,4-Dinitrotoluene	NELAP	0.122	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2,6-Dinitrotoluene	NELAP	0.126	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2-Chloronaphthalene	NELAP	0.14	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2-Chlorophenol	NELAP	0.149	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2-Methylnaphthalene	NELAP	0.139	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2-Nitroaniline	NELAP	0.106	1.17		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
2-Nitrophenol	NELAP	0.131	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
3,3'-Dichlorobenzidine	NELAP	0.234	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
3-Nitroaniline	NELAP	0.096	1.17		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4,6-Dinitro-2-methylphenol	NELAP	0.126	1.17		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Bromophenyl phenyl ether	NELAP	0.108	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Chloro-3-methylphenol	NELAP	0.129	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Chloroaniline	NELAP	0.142	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Chlorophenyl phenyl ether	NELAP	0.116	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Nitroaniline	NELAP	0.106	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
4-Nitrophenol	NELAP	0.115	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Acenaphthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Acenaphthylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Benzo(a)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Benzo(a)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Benzo(b)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Benzo(g,h,i)perylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Benzo(k)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Bis(2-chloroethoxy)methane	NELAP	0.137	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Bis(2-chloroethyl)ether	NELAP	0.166	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Bis(2-chloroisopropyl)ether	NELAP	0.133	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.137	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-006

Client Sample ID: 1467V-7-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.118	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Carbazole		0.143	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Chrysene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Dibenzo(a,h)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Dibenzofuran	NELAP	0.147	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Diethyl phthalate	NELAP	0.112	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Dimethyl phthalate	NELAP	0.106	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Di-n-butyl phthalate	NELAP	0.121	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Di-n-octyl phthalate	NELAP	0.122	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Fluorene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Hexachlorobenzene	NELAP	0.115	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Hexachlorobutadiene	NELAP	0.181	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Hexachlorocyclopentadiene	NELAP	0.119	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Hexachloroethane	NELAP	0.195	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Isophorone	NELAP	0.138	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
m,p-Cresol	NELAP	0.147	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Naphthalene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Nitrobenzene	NELAP	0.146	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
N-Nitroso-di-n-propylamine	NELAP	0.129	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
N-Nitrosodiphenylamine	NELAP	0.108	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
o-Cresol	NELAP	0.138	0.585		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Pentachlorophenol	NELAP	0.772	2.34		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Phenanthrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Phenol	NELAP	0.136	0.41		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/02/2013 1:14	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		72.2	%REC	1	09/02/2013 1:14	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		64	%REC	1	09/02/2013 1:14	91529
Surr: 2-Fluorophenol		0	30.5-99		63.1	%REC	1	09/02/2013 1:14	91529
Surr: Nitrobenzene-d5		0	34.1-101		70.8	%REC	1	09/02/2013 1:14	91529
Surr: Phenol-d5		0	34.9-110		66.7	%REC	1	09/02/2013 1:14	91529
Surr: p-Terphenyl-d14		0	41.7-124		66.1	%REC	1	09/02/2013 1:14	91529
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
2-Butanone	NELAP	0.01	0.05	J	0.048	mg/Kg-dry	1	09/03/2013 15:29	91590
2-Hexanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
4-Methyl-2-pentanone	NELAP	0.01	0.05		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Acetone	NELAP	0.01	0.05		0.1	mg/Kg-dry	1	09/03/2013 15:29	91590
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/03/2013 15:29	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081492

Client Project: IDOT2013-018

Report Date: 10-Sep-13

Lab ID: 13081492-006

Client Sample ID: 1467V-7-B03-2

Matrix: SOLID

Collection Date: 08/27/2013 8:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Carbon disulfide	NELAP	0.003	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
m,p-Xylenes	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Toluene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Vinyl acetate	NELAP	0.0199	0.05		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Xylenes, Total	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 15:29	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		115.9	%REC	1	09/03/2013 15:29	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		102.1	%REC	1	09/03/2013 15:29	91590
Surr: Dibromofluoromethane		0	77.7-120		100.9	%REC	1	09/03/2013 15:29	91590
Surr: Toluene-d8		0	86-116		99.9	%REC	1	09/03/2013 15:29	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Purple Shore Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>130B1492</u> Sample Temp: <u>4.6°C</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments			
130B1492-001	1467V-7-B01-1	8-27-13	1:00 PM	S	X	X					X	X	X	X		0-4.5			
002	1467V-7-B01-2	8-27-13	1:05 PM													4.5-9			
003	1467V-7-B02-1	8-27-13	10:30 AM													0-4.5			
004	1467V-7-B02-2	8-27-13	10:35 AM													4.5-9			
005	1467V-7-B03-1	8-27-13	8:00 AM													0-4.5			
006	1467V-7-B03-2	8-27-13	8:05 AM													4.5-9			
007	1467V-7-B04-1	8-27-13	8:20 AM													0-4.5			
008	1467V-7-B04-2	8-27-13	8:25 AM	S	X	X					X	X	X	X		4.5-9			
Relinquished by: <u>[Signature]</u>		Date/Time																	
Relinquished by: <u>[Signature]</u>		Date/Time	8-27-13	4:40 PM	Received by: <u>[Signature]</u>												Date/Time	8/27/13	4:45 PM
Relinquished by: <u>[Signature]</u>		Date/Time	8-28-13	6:30 AM	Received by: <u>[Signature]</u>												Date/Time	8/28/13	6:30 AM
Relinquished by: <u>[Signature]</u>		Date/Time	8/28/13	8:30 AM	Received by: <u>[Signature]</u>												Date/Time	8/28/13	8:30 AM



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
42W249 IL 72

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08855 Longitude: -88.45377
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 0890655004 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction
 Latitude: 42.08855 Longitude: -88.45377

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION 1467V-8-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 1467V-8. SEE FIGURE 3 AND TABLE 3h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081493

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

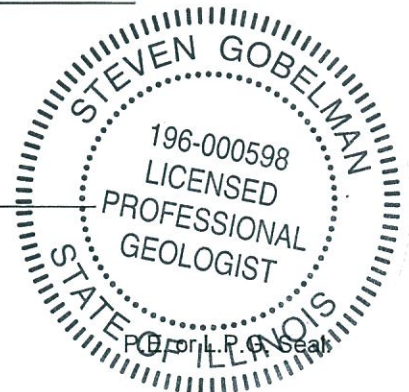
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/21/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-8

Retention Pond

Sample ID	1467V-8-B01	1467V-8-B01 DUP	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4						
Sample Date	8/27/2013	8/27/2013						
PID	0	0						
Sample pH	8	7.76						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081493

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-001

Client Sample ID: 1467V-8-B01

Matrix: SOLID

Collection Date: 08/27/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1	R	19.5	%	1	08/29/2013 16:48	R181265
<i>DUP did not recover within control limits due to sample composition.</i>									
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.5	%	1	08/29/2013 16:48	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8		1	08/30/2013 9:36	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.333	mg/L	1	09/09/2013 14:49	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.156	mg/L	1	09/05/2013 10:56	91626
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/05/2013 10:56	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 10:56	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 10:56	91626
Chromium	NELAP	0.004	0.01		0.0205	mg/L	1	09/05/2013 10:56	91626
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/05/2013 10:56	91626
Iron	NELAP	0.007	0.02	X	12	mg/L	1	09/05/2013 10:56	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 10:56	91626
Manganese	NELAP	0.0016	0.005		0.0868	mg/L	1	09/05/2013 10:56	91626
Nickel	NELAP	0.0033	0.01	J	0.0097	mg/L	1	09/05/2013 10:56	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 10:56	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 10:56	91626
Zinc	NELAP	0.0021	0.01		0.0393	mg/L	1	09/05/2013 10:56	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 10:27	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:17	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:35	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		22000	mg/Kg-dry	1	09/03/2013 22:06	91509
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/03/2013 23:02	91527
Arsenic	NELAP	1.23	2.45		9.46	mg/Kg-dry	1	09/03/2013 22:06	91509
Barium	NELAP	0.25	0.49		237	mg/Kg-dry	1	09/03/2013 22:06	91509
Beryllium	NELAP	0.05	0.1		0.98	mg/Kg-dry	1	09/03/2013 22:06	91509
Boron	NELAP	0.98	1.96		6.44	mg/Kg-dry	1	09/03/2013 22:06	91509
Cadmium	NELAP	0.1	0.2		0.28	mg/Kg-dry	1	09/03/2013 22:06	91509
Calcium	NELAP	2.45	4.9		5210	mg/Kg-dry	1	09/03/2013 22:06	91509
Chromium	NELAP	0.49	0.98	X	29.2	mg/Kg-dry	1	09/03/2013 22:06	91509
Cobalt	NELAP	0.49	0.98		9.87	mg/Kg-dry	1	09/03/2013 22:06	91509
Copper	NELAP	0.49	0.98		20.9	mg/Kg-dry	1	09/03/2013 22:06	91509
Iron	NELAP	0.98	1.96	X	22600	mg/Kg-dry	1	09/03/2013 22:06	91509
Lead	NELAP	1.96	3.92		16.7	mg/Kg-dry	1	09/03/2013 22:06	91509
Magnesium	NELAP	0.49	0.98		4960	mg/Kg-dry	1	09/03/2013 22:06	91509
Manganese	NELAP	0.25	0.49	X	819	mg/Kg-dry	1	09/03/2013 22:06	91509
Nickel	NELAP	0.49	0.98		25.8	mg/Kg-dry	1	09/03/2013 22:06	91509
Potassium	NELAP	4.9	9.8		1520	mg/Kg-dry	1	09/03/2013 22:06	91509



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-001

Client Sample ID: 1467V-8-B01

Matrix: SOLID

Collection Date: 08/27/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/03/2013 22:06	91509
Sodium	NELAP	2.45	4.9		922	mg/Kg-dry	1	09/03/2013 22:06	91509
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/03/2013 22:06	91509
Vanadium	NELAP	0.49	0.98		46.3	mg/Kg-dry	1	09/03/2013 22:06	91509
Zinc	NELAP	0.49	0.98		63.3	mg/Kg-dry	1	09/03/2013 22:06	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/03/2013 10:33	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.083	mg/Kg-dry	1	08/30/2013 13:37	91481
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.163	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
1,2-Dichlorobenzene	NELAP	0.195	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
1,3-Dichlorobenzene	NELAP	0.206	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
1,4-Dichlorobenzene	NELAP	0.195	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4,5-Trichlorophenol	NELAP	0.117	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4,6-Trichlorophenol	NELAP	0.155	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4-Dichlorophenol	NELAP	0.149	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4-Dimethylphenol	NELAP	0.156	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4-Dinitrophenol	NELAP	0.131	1.23		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,4-Dinitrotoluene	NELAP	0.128	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2,6-Dinitrotoluene	NELAP	0.133	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2-Chloronaphthalene	NELAP	0.147	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2-Chlorophenol	NELAP	0.156	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2-Methylnaphthalene	NELAP	0.146	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2-Nitroaniline	NELAP	0.112	1.23		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
2-Nitrophenol	NELAP	0.137	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
3,3'-Dichlorobenzidine	NELAP	0.246	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
3-Nitroaniline	NELAP	0.101	1.23		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4,6-Dinitro-2-methylphenol	NELAP	0.133	1.23		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Bromophenyl phenyl ether	NELAP	0.113	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Chloro-3-methylphenol	NELAP	0.135	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Chloroaniline	NELAP	0.149	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Chlorophenyl phenyl ether	NELAP	0.122	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Nitroaniline	NELAP	0.112	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
4-Nitrophenol	NELAP	0.12	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Bis(2-chloroethoxy)methane	NELAP	0.144	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Bis(2-chloroethyl)ether	NELAP	0.174	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Bis(2-chloroisopropyl)ether	NELAP	0.14	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-001

Client Sample ID: 1467V-8-B01

Matrix: SOLID

Collection Date: 08/27/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.144	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Butyl benzyl phthalate	NELAP	0.124	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Carbazole		0.15	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Dibenzofuran	NELAP	0.155	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Diethyl phthalate	NELAP	0.118	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Dimethyl phthalate	NELAP	0.112	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Di-n-butyl phthalate	NELAP	0.126	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Di-n-octyl phthalate	NELAP	0.128	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Hexachlorobenzene	NELAP	0.12	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Hexachlorobutadiene	NELAP	0.19	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Hexachlorocyclopentadiene	NELAP	0.125	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Hexachloroethane	NELAP	0.205	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Isophorone	NELAP	0.145	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
m,p-Cresol	NELAP	0.155	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Nitrobenzene	NELAP	0.153	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
N-Nitroso-di-n-propylamine	NELAP	0.135	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
N-Nitrosodiphenylamine	NELAP	0.113	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
o-Cresol	NELAP	0.145	0.614		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Pentachlorophenol	NELAP	0.81	2.46		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Phenol	NELAP	0.142	0.43		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:19	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		68.4	%REC	1	09/02/2013 2:19	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		55.9	%REC	1	09/02/2013 2:19	91529
Surr: 2-Fluorophenol		0	30.5-99		59.7	%REC	1	09/02/2013 2:19	91529
Surr: Nitrobenzene-d5		0	34.1-101		65.8	%REC	1	09/02/2013 2:19	91529
Surr: Phenol-d5		0	34.9-110		61.4	%REC	1	09/02/2013 2:19	91529
Surr: p-Terphenyl-d14		0	41.7-124		69.3	%REC	1	09/02/2013 2:19	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
2-Butanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
2-Hexanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
4-Methyl-2-pentanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/03/2013 16:48	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-001

Client Sample ID: 1467V-8-B01

Matrix: SOLID

Collection Date: 08/27/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0089	0.044	J	0.015	mg/Kg-dry	1	09/03/2013 16:48	91590
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/03/2013 16:48	91590
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Ethylbenzene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/03/2013 16:48	91590
m,p-Xylenes	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 16:48	91590
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Toluene	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 16:48	91590
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Vinyl acetate	NELAP	0.0178	0.044		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 16:48	91590
Xylenes, Total	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/03/2013 16:48	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		115.1	%REC	1	09/03/2013 16:48	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		110.1	%REC	1	09/03/2013 16:48	91590
Surr: Dibromofluoromethane		0	77.7-120		104.3	%REC	1	09/03/2013 16:48	91590
Surr: Toluene-d8		0	86-116		101.2	%REC	1	09/03/2013 16:48	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-002

Client Sample ID: 1467V-8-B01 DUP

Matrix: SOLID

Collection Date: 08/27/2013 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.7	%	1	08/29/2013 16:49	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.3	%	1	08/29/2013 16:49	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.76		1	08/30/2013 9:38	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.739	mg/L	1	09/10/2013 10:23	91704
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0915	mg/L	1	09/05/2013 11:07	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 11:07	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:07	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:07	91626
Chromium	NELAP	0.004	0.01		0.0124	mg/L	1	09/05/2013 11:07	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 11:07	91626
Iron	NELAP	0.007	0.02	X	7.12	mg/L	1	09/05/2013 11:07	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:07	91626
Manganese	NELAP	0.0016	0.005		0.0416	mg/L	1	09/05/2013 11:07	91626
Nickel	NELAP	0.0033	0.01	J	0.0054	mg/L	1	09/05/2013 11:07	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:07	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:07	91626
Zinc	NELAP	0.0021	0.01		0.0253	mg/L	1	09/05/2013 11:07	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 10:31	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:20	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:38	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81	S	22100	mg/Kg-dry	1	09/03/2013 22:12	91509
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/05/2013 22:30	91623
Arsenic	NELAP	1.2	2.4		10.4	mg/Kg-dry	1	09/03/2013 22:12	91509
Barium	NELAP	0.24	0.48		238	mg/Kg-dry	1	09/03/2013 22:12	91509
Beryllium	NELAP	0.05	0.1		1.02	mg/Kg-dry	1	09/03/2013 22:12	91509
Boron	NELAP	0.96	1.92		5.79	mg/Kg-dry	1	09/03/2013 22:12	91509
Cadmium	NELAP	0.1	0.19		0.3	mg/Kg-dry	1	09/03/2013 22:12	91509
Calcium	NELAP	2.4	4.81	S	5050	mg/Kg-dry	1	09/03/2013 22:12	91509
Chromium	NELAP	0.48	0.96	X	28.5	mg/Kg-dry	1	09/03/2013 22:12	91509
Cobalt	NELAP	0.48	0.96		9.92	mg/Kg-dry	1	09/03/2013 22:12	91509
Copper	NELAP	0.48	0.96		23.6	mg/Kg-dry	1	09/03/2013 22:12	91509
Iron	NELAP	0.96	1.92	SX	23000	mg/Kg-dry	1	09/03/2013 22:12	91509
Lead	NELAP	1.92	3.85		15.9	mg/Kg-dry	1	09/03/2013 22:12	91509
Magnesium	NELAP	0.48	0.96	S	4810	mg/Kg-dry	1	09/03/2013 22:12	91509
Manganese	NELAP	0.24	0.48	SX	761	mg/Kg-dry	1	09/03/2013 22:12	91509
Nickel	NELAP	0.48	0.96		23.6	mg/Kg-dry	1	09/03/2013 22:12	91509
Potassium	NELAP	4.81	9.62	S	1480	mg/Kg-dry	1	09/03/2013 22:12	91509
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/03/2013 22:12	91509



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-002

Client Sample ID: 1467V-8-B01 DUP

Matrix: SOLID

Collection Date: 08/27/2013 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81	S	875	mg/Kg-dry	1	09/03/2013 22:12	91509
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/03/2013 22:12	91509
Vanadium	NELAP	0.48	0.96		48.1	mg/Kg-dry	1	09/03/2013 22:12	91509
Zinc	NELAP	0.48	0.96		65	mg/Kg-dry	1	09/03/2013 22:12	91509
<i>MS QC limits for Al, Ca, Fe, Mg, Mn, K, and Na are not applicable due to high sample/spike ratio.</i>									
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/03/2013 10:37	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.098	mg/Kg-dry	1	08/30/2013 9:16	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.164	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
1,2-Dichlorobenzene	NELAP	0.196	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
1,3-Dichlorobenzene	NELAP	0.207	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
1,4-Dichlorobenzene	NELAP	0.196	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4,5-Trichlorophenol	NELAP	0.117	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4,6-Trichlorophenol	NELAP	0.155	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4-Dichlorophenol	NELAP	0.149	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4-Dimethylphenol	NELAP	0.156	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4-Dinitrophenol	NELAP	0.132	1.23		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,4-Dinitrotoluene	NELAP	0.128	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2,6-Dinitrotoluene	NELAP	0.133	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2-Chloronaphthalene	NELAP	0.148	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2-Chlorophenol	NELAP	0.156	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2-Methylnaphthalene	NELAP	0.147	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2-Nitroaniline	NELAP	0.112	1.23		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
2-Nitrophenol	NELAP	0.138	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
3,3'-Dichlorobenzidine	NELAP	0.246	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
3-Nitroaniline	NELAP	0.101	1.23		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4,6-Dinitro-2-methylphenol	NELAP	0.133	1.23		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Bromophenyl phenyl ether	NELAP	0.113	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Chloro-3-methylphenol	NELAP	0.135	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Chloroaniline	NELAP	0.149	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Chlorophenyl phenyl ether	NELAP	0.122	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Nitroaniline	NELAP	0.112	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
4-Nitrophenol	NELAP	0.121	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Bis(2-chloroethoxy)methane	NELAP	0.144	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Bis(2-chloroethyl)ether	NELAP	0.175	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Bis(2-chloroisopropyl)ether	NELAP	0.14	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-002

Client Sample ID: 1467V-8-B01 DUP

Matrix: SOLID

Collection Date: 08/27/2013 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.144	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Butyl benzyl phthalate	NELAP	0.124	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Carbazole		0.15	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Dibenzofuran	NELAP	0.155	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Diethyl phthalate	NELAP	0.118	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Dimethyl phthalate	NELAP	0.112	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Di-n-butyl phthalate	NELAP	0.127	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Di-n-octyl phthalate	NELAP	0.128	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Hexachlorobenzene	NELAP	0.121	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Hexachlorobutadiene	NELAP	0.191	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Hexachlorocyclopentadiene	NELAP	0.126	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Hexachloroethane	NELAP	0.206	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Isophorone	NELAP	0.145	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
m,p-Cresol	NELAP	0.155	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Nitrobenzene	NELAP	0.154	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
N-Nitroso-di-n-propylamine	NELAP	0.135	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
N-Nitrosodiphenylamine	NELAP	0.113	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
o-Cresol	NELAP	0.145	0.616		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Pentachlorophenol	NELAP	0.813	2.46		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Phenol	NELAP	0.143	0.431		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 2:52	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		62.4	%REC	1	09/02/2013 2:52	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		52.3	%REC	1	09/02/2013 2:52	91529
Surr: 2-Fluorophenol		0	30.5-99		54.9	%REC	1	09/02/2013 2:52	91529
Surr: Nitrobenzene-d5		0	34.1-101		66.9	%REC	1	09/02/2013 2:52	91529
Surr: Phenol-d5		0	34.9-110		57.1	%REC	1	09/02/2013 2:52	91529
Surr: p-Terphenyl-d14		0	41.7-124		63.3	%REC	1	09/02/2013 2:52	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
2-Butanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
2-Hexanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
4-Methyl-2-pentanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/03/2013 17:14	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081493

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081493-002

Client Sample ID: 1467V-8-B01 DUP

Matrix: SOLID

Collection Date: 08/27/2013 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0094	0.047		0.2	mg/Kg-dry	1	09/03/2013 17:14	91590
Benzene	NELAP	0.0005	0.001		0.001	mg/Kg-dry	1	09/03/2013 17:14	91590
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Bromomethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Chloroethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Chloromethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Ethylbenzene	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/03/2013 17:14	91590
m,p-Xylenes	NELAP	0.0009	0.005	J	0.003	mg/Kg-dry	1	09/03/2013 17:14	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Toluene	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/03/2013 17:14	91590
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Vinyl acetate	NELAP	0.0187	0.047		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 17:14	91590
Xylenes, Total	NELAP	0.0009	0.005	J	0.003	mg/Kg-dry	1	09/03/2013 17:14	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.8	%REC	1	09/03/2013 17:14	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		112.7	%REC	1	09/03/2013 17:14	91590
Surr: Dibromofluoromethane		0	77.7-120		100.6	%REC	1	09/03/2013 17:14	91590
Surr: Toluene-d8		0	86-116		103.8	%REC	1	09/03/2013 17:14	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Drive Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>1</u> Lab Job No.: Sample Temp.: <u>1308/1493</u> Matrix Key: <u>5, 6, 1, 2</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES											Comments	
					VOCs	SVOCs	BETX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization		
1308/1493	1467V-8-B01	8-27-13	10:40Am	S	X	X					X	X	X	X			0-4
002	1467V-8-B01 DUP	8-27-13	10:45Am	S	X	X					X	X	X	X			0-4

Relinquished by: Zoe Ko (A&I) Date/Time: 8-27-13 4:40pm

Relinquished by: Stephanie Kelly Date/Time: 8-28-13 6:30pm

Relinquished by: Stephanie Kelly Date/Time: 8/28/13 21:40

Relinquished by: Stephanie Kelly Date/Time: 8/28/13 21:40

Andrew's Engineering, Inc. Stephanie Kelly



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15N100 - 15N300 blocks of IL 47

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08584 Longitude: -88.45600

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction
Latitude: 42.08584 Longitude: -88.45600

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-9-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 1467V-9. SEE FIGURE 5 AND TABLE 3i OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081494

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

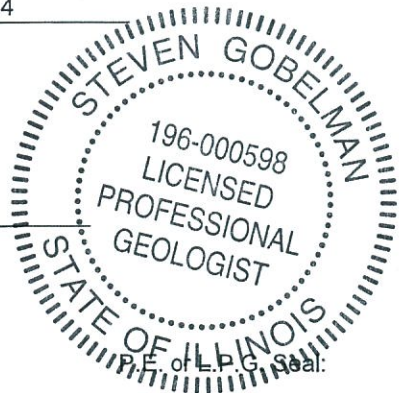
Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-9

Vacant Land/Water Tower

Sample ID	1467V-9-B01	1467V-9-B02	1467V-9-B03	1467V-9-B04	1467V-9-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-4	0-4						
Sample Date	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013						
PID	0	0	0	0	0						
Sample pH	8.87	8.07	6.93	7.52	7.35						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081494

Dear Colleen Grey:

TEKLAB, INC received 6 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

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Lab ID: 13081494-001

Client Sample ID: 1467V-9-B01

Matrix: SOLID

Collection Date: 08/28/2013 10:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		1	%	1	08/29/2013 16:49	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		99	%	1	08/29/2013 16:49	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.87		1	08/30/2013 9:40	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.217	mg/L	1	09/06/2013 18:03	91698
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0749	mg/L	1	09/05/2013 11:10	91626
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/05/2013 11:10	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:10	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:10	91626
Chromium	NELAP	0.004	0.01		0.011	mg/L	1	09/05/2013 11:10	91626
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/05/2013 11:10	91626
Iron	NELAP	0.007	0.02	X	7.96	mg/L	1	09/05/2013 11:10	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:10	91626
Manganese	NELAP	0.0016	0.005		0.068	mg/L	1	09/05/2013 11:10	91626
Nickel	NELAP	0.0033	0.01	J	0.0089	mg/L	1	09/05/2013 11:10	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:10	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:10	91626
Zinc	NELAP	0.0021	0.01		0.0324	mg/L	1	09/05/2013 11:10	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 10:35	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:24	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:40	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		4850	mg/Kg-dry	1	09/03/2013 22:43	91509
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/04/2013 0:19	91538
Arsenic	NELAP	1.18	2.36	J	2.31	mg/Kg-dry	1	09/03/2013 22:43	91509
Barium	NELAP	0.24	0.47		28.1	mg/Kg-dry	1	09/03/2013 22:43	91509
Beryllium	NELAP	0.05	0.09		0.27	mg/Kg-dry	1	09/03/2013 22:43	91509
Boron	NELAP	0.94	1.89		8	mg/Kg-dry	1	09/03/2013 22:43	91509
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 22:43	91509
Calcium	NELAP	2.36	4.72		78500	mg/Kg-dry	1	09/03/2013 22:43	91509
Chromium	NELAP	0.47	0.94		8.74	mg/Kg-dry	1	09/03/2013 22:43	91509
Cobalt	NELAP	0.47	0.94		3.67	mg/Kg-dry	1	09/03/2013 22:43	91509
Copper	NELAP	0.47	0.94		8.43	mg/Kg-dry	1	09/03/2013 22:43	91509
Iron	NELAP	0.94	1.89		8890	mg/Kg-dry	1	09/03/2013 22:43	91509
Lead	NELAP	1.89	3.77		5.48	mg/Kg-dry	1	09/03/2013 22:43	91509
Magnesium	NELAP	0.47	0.94		37200	mg/Kg-dry	1	09/03/2013 22:43	91509
Manganese	NELAP	0.24	0.47		283	mg/Kg-dry	1	09/03/2013 22:43	91509
Nickel	NELAP	0.47	0.94		9.19	mg/Kg-dry	1	09/03/2013 22:43	91509
Potassium	NELAP	4.72	9.43		1170	mg/Kg-dry	1	09/03/2013 22:43	91509
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/03/2013 22:43	91509

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Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.36	4.72		336	mg/Kg-dry	1	09/03/2013 22:43	91509
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/03/2013 22:43	91509
Vanadium	NELAP	0.47	0.94		14.4	mg/Kg-dry	1	09/03/2013 22:43	91509
Zinc	NELAP	0.47	0.94		20.7	mg/Kg-dry	1	09/03/2013 22:43	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/06/2013 12:29	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.007	mg/Kg-dry	1	08/30/2013 9:18	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.134	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
1,2-Dichlorobenzene	NELAP	0.161	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
1,3-Dichlorobenzene	NELAP	0.17	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
1,4-Dichlorobenzene	NELAP	0.161	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4,5-Trichlorophenol	NELAP	0.096	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4,6-Trichlorophenol	NELAP	0.127	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4-Dichlorophenol	NELAP	0.122	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4-Dimethylphenol	NELAP	0.128	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4-Dinitrophenol	NELAP	0.108	1.01		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,4-Dinitrotoluene	NELAP	0.105	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2,6-Dinitrotoluene	NELAP	0.109	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2-Chloronaphthalene	NELAP	0.121	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2-Chlorophenol	NELAP	0.128	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2-Methylnaphthalene	NELAP	0.12	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2-Nitroaniline	NELAP	0.092	1.01		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
2-Nitrophenol	NELAP	0.113	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
3,3'-Dichlorobenzidine	NELAP	0.202	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
3-Nitroaniline	NELAP	0.083	1.01		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4,6-Dinitro-2-methylphenol	NELAP	0.109	1.01		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Bromophenyl phenyl ether	NELAP	0.093	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Chloro-3-methylphenol	NELAP	0.111	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Chloroaniline	NELAP	0.122	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Chlorophenyl phenyl ether	NELAP	0.1	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Nitroaniline	NELAP	0.092	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
4-Nitrophenol	NELAP	0.099	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Acenaphthene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Acenaphthylene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Anthracene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Benzo(a)anthracene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Benzo(a)pyrene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Benzo(b)fluoranthene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Benzo(g,h,i)perylene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Benzo(k)fluoranthene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Bis(2-chloroethoxy)methane	NELAP	0.118	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Bis(2-chloroethyl)ether	NELAP	0.143	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Bis(2-chloroisopropyl)ether	NELAP	0.115	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.118	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529

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Collection Date: 08/28/2013 10:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.102	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Carbazole		0.123	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Chrysene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Dibenzo(a,h)anthracene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Dibenzofuran	NELAP	0.127	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Diethyl phthalate	NELAP	0.097	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Dimethyl phthalate	NELAP	0.092	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Di-n-butyl phthalate	NELAP	0.104	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Di-n-octyl phthalate	NELAP	0.105	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Fluoranthene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Fluorene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Hexachlorobenzene	NELAP	0.099	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Hexachlorobutadiene	NELAP	0.157	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Hexachlorocyclopentadiene	NELAP	0.103	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Hexachloroethane	NELAP	0.169	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Isophorone	NELAP	0.119	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
m,p-Cresol	NELAP	0.127	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Naphthalene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Nitrobenzene	NELAP	0.126	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
N-Nitroso-di-n-propylamine	NELAP	0.111	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
N-Nitrosodiphenylamine	NELAP	0.093	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
o-Cresol	NELAP	0.119	0.505		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Pentachlorophenol	NELAP	0.666	2.02		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Phenanthrene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Phenol	NELAP	0.117	0.353		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Pyrene	NELAP	0.017	0.034		ND	mg/Kg-dry	1	09/02/2013 6:19	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		57.9	%REC	1	09/02/2013 6:19	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		60.8	%REC	1	09/02/2013 6:19	91529
Surr: 2-Fluorophenol		0	30.5-99		58	%REC	1	09/02/2013 6:19	91529
Surr: Nitrobenzene-d5		0	34.1-101		66.7	%REC	1	09/02/2013 6:19	91529
Surr: Phenol-d5		0	34.9-110		61.3	%REC	1	09/02/2013 6:19	91529
Surr: p-Terphenyl-d14		0	41.7-124		62.1	%REC	1	09/02/2013 6:19	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,1,1,2-Tetrachloroethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,1,2-Trichloroethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,1-Dichloroethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,1-Dichloroethene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,2-Dichloroethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,2-Dichloropropane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
1,3-Dichloropropene, Total		0.0045	0.018		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
2-Butanone	NELAP	0.0455	0.227		0.385	mg/Kg-dry	1	09/03/2013 17:41	91590
2-Hexanone	NELAP	0.0455	0.227	J	0.053	mg/Kg-dry	1	09/03/2013 17:41	91590
4-Methyl-2-pentanone	NELAP	0.0455	0.227		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Acetone	NELAP	0.0455	0.227		0.869	mg/Kg-dry	1	09/03/2013 17:41	91590



Laboratory Results

<http://www.teklabinc.com/>

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Collection Date: 08/28/2013 10:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0023	0.005		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Bromodichloromethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Bromoform	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Bromomethane	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Carbon disulfide	NELAP	0.0136	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Carbon tetrachloride	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Chlorobenzene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Chloroethane	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Chloroform	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Chloromethane	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
cis-1,2-Dichloroethene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
cis-1,3-Dichloropropene	NELAP	0.0045	0.018		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Dibromochloromethane	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Ethylbenzene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
m,p-Xylenes	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Methyl tert-butyl ether	NELAP	0.0023	0.009		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Methylene chloride	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
o-Xylene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Styrene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Tetrachloroethene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Toluene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
trans-1,2-Dichloroethene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
trans-1,3-Dichloropropene	NELAP	0.0045	0.018		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Trichloroethene	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Vinyl acetate	NELAP	0.091	0.227		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Vinyl chloride	NELAP	0.0023	0.009		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Xylenes, Total	NELAP	0.0045	0.023		ND	mg/Kg-dry	1	09/03/2013 17:41	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.5	%REC	1	09/03/2013 17:41	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		108	%REC	1	09/03/2013 17:41	91590
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	09/03/2013 17:41	91590
Surr: Toluene-d8		0	86-116		101	%REC	1	09/03/2013 17:41	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-002

Client Sample ID: 1467V-9-B02

Matrix: SOLID

Collection Date: 08/28/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		5.8	%	1	08/29/2013 16:49	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		94.2	%	1	08/29/2013 16:49	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.07		1	08/30/2013 9:42	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.161	mg/L	1	09/10/2013 10:53	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0703	mg/L	1	09/05/2013 11:14	91626
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 11:14	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:14	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:14	91626
Chromium	NELAP	0.004	0.01		0.0111	mg/L	1	09/05/2013 11:14	91626
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 11:14	91626
Iron	NELAP	0.007	0.02	X	8.06	mg/L	1	09/05/2013 11:14	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:14	91626
Manganese	NELAP	0.0016	0.005		0.0486	mg/L	1	09/05/2013 11:14	91626
Nickel	NELAP	0.0033	0.01	J	0.0068	mg/L	1	09/05/2013 11:14	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:14	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:14	91626
Zinc	NELAP	0.0021	0.01		0.0237	mg/L	1	09/05/2013 11:14	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 10:46	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:41	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:42	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		8320	mg/Kg-dry	1	09/03/2013 22:49	91509
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/04/2013 0:30	91538
Arsenic	NELAP	1.25	2.5		6.53	mg/Kg-dry	1	09/03/2013 22:49	91509
Barium	NELAP	0.25	0.5		62.2	mg/Kg-dry	1	09/03/2013 22:49	91509
Beryllium	NELAP	0.05	0.1		0.42	mg/Kg-dry	1	09/03/2013 22:49	91509
Boron	NELAP	1	2		7.71	mg/Kg-dry	1	09/03/2013 22:49	91509
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/03/2013 22:49	91509
Calcium	NELAP	2.5	5		32000	mg/Kg-dry	1	09/03/2013 22:49	91509
Chromium	NELAP	0.5	1	X	13.6	mg/Kg-dry	1	09/03/2013 22:49	91509
Cobalt	NELAP	0.5	1		4.64	mg/Kg-dry	1	09/03/2013 22:49	91509
Copper	NELAP	0.5	1		12.8	mg/Kg-dry	1	09/03/2013 22:49	91509
Iron	NELAP	1	2		14600	mg/Kg-dry	1	09/03/2013 22:49	91509
Lead	NELAP	2	4		7.11	mg/Kg-dry	1	09/03/2013 22:49	91509
Magnesium	NELAP	0.5	1		19500	mg/Kg-dry	1	09/03/2013 22:49	91509
Manganese	NELAP	0.25	0.5		338	mg/Kg-dry	1	09/03/2013 22:49	91509
Nickel	NELAP	0.5	1		14.4	mg/Kg-dry	1	09/03/2013 22:49	91509
Potassium	NELAP	5	10		1510	mg/Kg-dry	1	09/03/2013 22:49	91509
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/03/2013 22:49	91509

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-002

Client Sample ID: 1467V-9-B02

Matrix: SOLID

Collection Date: 08/28/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.5	5		158	mg/Kg-dry	1	09/03/2013 22:49	91509
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/03/2013 22:49	91509
Vanadium	NELAP	0.5	1		20.8	mg/Kg-dry	1	09/03/2013 22:49	91509
Zinc	NELAP	0.5	1		34	mg/Kg-dry	1	09/03/2013 22:49	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/03/2013 15:29	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.01		0.018	mg/Kg-dry	1	08/30/2013 9:21	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.142	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
1,2-Dichlorobenzene	NELAP	0.17	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
1,3-Dichlorobenzene	NELAP	0.179	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
1,4-Dichlorobenzene	NELAP	0.17	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4,5-Trichlorophenol	NELAP	0.101	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4,6-Trichlorophenol	NELAP	0.134	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4-Dichlorophenol	NELAP	0.129	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4-Dimethylphenol	NELAP	0.135	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4-Dinitrophenol	NELAP	0.114	1.07		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,4-Dinitrotoluene	NELAP	0.111	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2,6-Dinitrotoluene	NELAP	0.115	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2-Chloronaphthalene	NELAP	0.128	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2-Chlorophenol	NELAP	0.135	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2-Methylnaphthalene	NELAP	0.127	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2-Nitroaniline	NELAP	0.097	1.07		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
2-Nitrophenol	NELAP	0.119	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
3,3'-Dichlorobenzidine	NELAP	0.213	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
3-Nitroaniline	NELAP	0.087	1.07		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4,6-Dinitro-2-methylphenol	NELAP	0.115	1.07		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Bromophenyl phenyl ether	NELAP	0.098	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Chloro-3-methylphenol	NELAP	0.117	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Chloroaniline	NELAP	0.129	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Chlorophenyl phenyl ether	NELAP	0.106	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Nitroaniline	NELAP	0.097	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
4-Nitrophenol	NELAP	0.104	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Acenaphthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Acenaphthylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Benzo(a)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Benzo(a)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Benzo(b)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Benzo(g,h,i)perylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Benzo(k)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Bis(2-chloroethoxy)methane	NELAP	0.125	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Bis(2-chloroethyl)ether	NELAP	0.151	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Bis(2-chloroisopropyl)ether	NELAP	0.122	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.125	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-002

Client Sample ID: 1467V-9-B02

Matrix: SOLID

Collection Date: 08/28/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.108	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Carbazole		0.13	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Chrysene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Dibenzo(a,h)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Dibenzofuran	NELAP	0.134	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Diethyl phthalate	NELAP	0.102	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Dimethyl phthalate	NELAP	0.097	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Di-n-butyl phthalate	NELAP	0.11	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Di-n-octyl phthalate	NELAP	0.111	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Fluorene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Hexachlorobenzene	NELAP	0.104	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Hexachlorobutadiene	NELAP	0.165	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Hexachlorocyclopentadiene	NELAP	0.109	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Hexachloroethane	NELAP	0.178	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Isophorone	NELAP	0.126	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
m,p-Cresol	NELAP	0.134	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Naphthalene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Nitrobenzene	NELAP	0.133	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
N-Nitroso-di-n-propylamine	NELAP	0.117	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
N-Nitrosodiphenylamine	NELAP	0.098	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
o-Cresol	NELAP	0.126	0.533		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Pentachlorophenol	NELAP	0.704	2.13		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Phenanthrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Phenol	NELAP	0.124	0.373		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/02/2013 3:24	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		65.4	%REC	1	09/02/2013 3:24	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		58.3	%REC	1	09/02/2013 3:24	91529
Surr: 2-Fluorophenol		0	30.5-99		56.9	%REC	1	09/02/2013 3:24	91529
Surr: Nitrobenzene-d5		0	34.1-101		61.7	%REC	1	09/02/2013 3:24	91529
Surr: Phenol-d5		0	34.9-110		60.1	%REC	1	09/02/2013 3:24	91529
Surr: p-Terphenyl-d14		0	41.7-124		60.4	%REC	1	09/02/2013 3:24	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
2-Butanone	NELAP	0.0095	0.048		0.053	mg/Kg-dry	1	09/03/2013 18:07	91590
2-Hexanone	NELAP	0.0095	0.048		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
4-Methyl-2-pentanone	NELAP	0.0095	0.048		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Acetone	NELAP	0.0095	0.048		0.14	mg/Kg-dry	1	09/03/2013 18:07	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-002

Client Sample ID: 1467V-9-B02

Matrix: SOLID

Collection Date: 08/28/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0005	0.001		0.004	mg/Kg-dry	1	09/03/2013 18:07	91590
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Bromomethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Chloroethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Chloromethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Ethylbenzene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/03/2013 18:07	91590
m,p-Xylenes	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	09/03/2013 18:07	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
o-Xylene	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/03/2013 18:07	91590
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Toluene	NELAP	0.001	0.005		0.008	mg/Kg-dry	1	09/03/2013 18:07	91590
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Vinyl acetate	NELAP	0.0191	0.048		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 18:07	91590
Xylenes, Total	NELAP	0.001	0.005		0.005	mg/Kg-dry	1	09/03/2013 18:07	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		111.9	%REC	1	09/03/2013 18:07	91590
Surr: 4-Bromofluorobenzene		0	82.1-116	S	122.5	%REC	1	09/03/2013 18:07	91590
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	09/03/2013 18:07	91590
Surr: Toluene-d8		0	86-116		108.8	%REC	1	09/03/2013 18:07	91590

Surrogate recovery is outside QC limits due to matrix interference.

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-003

Client Sample ID: 1467V-9-B03

Matrix: SOLID

Collection Date: 08/28/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.8	%	1	08/29/2013 16:50	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.2	%	1	08/29/2013 16:50	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		6.93		1	08/30/2013 9:44	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.278	mg/L	1	09/10/2013 11:11	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.118	mg/L	1	09/05/2013 11:18	91626
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/05/2013 11:18	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:18	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:18	91626
Chromium	NELAP	0.004	0.01		0.0182	mg/L	1	09/05/2013 11:18	91626
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/05/2013 11:18	91626
Iron	NELAP	0.007	0.02	X	16.4	mg/L	1	09/05/2013 11:18	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:18	91626
Manganese	NELAP	0.0016	0.005		0.109	mg/L	1	09/05/2013 11:18	91626
Nickel	NELAP	0.0033	0.01		0.0109	mg/L	1	09/05/2013 11:18	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:18	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:18	91626
Zinc	NELAP	0.0021	0.01		0.0389	mg/L	1	09/05/2013 11:18	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 11:08	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:45	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:44	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		18400	mg/Kg-dry	1	09/03/2013 22:55	91509
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/04/2013 0:33	91538
Arsenic	NELAP	1.25	2.5		10	mg/Kg-dry	1	09/03/2013 22:55	91509
Barium	NELAP	0.25	0.5		128	mg/Kg-dry	1	09/03/2013 22:55	91509
Beryllium	NELAP	0.05	0.1		0.77	mg/Kg-dry	1	09/03/2013 22:55	91509
Boron	NELAP	1	2		5.68	mg/Kg-dry	1	09/03/2013 22:55	91509
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/03/2013 22:55	91509
Calcium	NELAP	2.5	5		3050	mg/Kg-dry	1	09/03/2013 22:55	91509
Chromium	NELAP	0.5	1	X	25.2	mg/Kg-dry	1	09/03/2013 22:55	91509
Cobalt	NELAP	0.5	1		13.7	mg/Kg-dry	1	09/03/2013 22:55	91509
Copper	NELAP	0.5	1		20.3	mg/Kg-dry	1	09/03/2013 22:55	91509
Iron	NELAP	1	2	X	25800	mg/Kg-dry	1	09/03/2013 22:55	91509
Lead	NELAP	2	4		14.7	mg/Kg-dry	1	09/03/2013 22:55	91509
Magnesium	NELAP	0.5	1		4060	mg/Kg-dry	1	09/03/2013 22:55	91509
Manganese	NELAP	0.25	0.5		621	mg/Kg-dry	1	09/03/2013 22:55	91509
Nickel	NELAP	0.5	1		21.4	mg/Kg-dry	1	09/03/2013 22:55	91509
Potassium	NELAP	5	10		1650	mg/Kg-dry	1	09/03/2013 22:55	91509
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/03/2013 22:55	91509

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-003

Client Sample ID: 1467V-9-B03

Matrix: SOLID

Collection Date: 08/28/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.5	5		193	mg/Kg-dry	1	09/03/2013 22:55	91509
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/03/2013 22:55	91509
Vanadium	NELAP	0.5	1		43	mg/Kg-dry	1	09/03/2013 22:55	91509
Zinc	NELAP	0.5	1		54.2	mg/Kg-dry	1	09/03/2013 22:55	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/03/2013 15:33	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.048	mg/Kg-dry	1	08/30/2013 9:27	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
1,2-Dichlorobenzene	NELAP	0.192	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
1,3-Dichlorobenzene	NELAP	0.203	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
1,4-Dichlorobenzene	NELAP	0.192	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4,5-Trichlorophenol	NELAP	0.115	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4,6-Trichlorophenol	NELAP	0.152	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4-Dichlorophenol	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4-Dimethylphenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4-Dinitrophenol	NELAP	0.129	1.21		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,4-Dinitrotoluene	NELAP	0.126	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2,6-Dinitrotoluene	NELAP	0.131	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2-Chloronaphthalene	NELAP	0.145	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2-Chlorophenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2-Methylnaphthalene	NELAP	0.144	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
2-Nitrophenol	NELAP	0.135	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
3,3'-Dichlorobenzidine	NELAP	0.242	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
3-Nitroaniline	NELAP	0.099	1.21		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Bromophenyl phenyl ether	NELAP	0.111	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Chloro-3-methylphenol	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Chloroaniline	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Chlorophenyl phenyl ether	NELAP	0.12	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Nitroaniline	NELAP	0.11	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
4-Nitrophenol	NELAP	0.118	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Bis(2-chloroethoxy)methane	NELAP	0.141	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Bis(2-chloroethyl)ether	NELAP	0.172	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.141	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-003

Client Sample ID: 1467V-9-B03

Matrix: SOLID

Collection Date: 08/28/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.122	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Carbazole		0.148	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Dibenzofuran	NELAP	0.152	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Diethyl phthalate	NELAP	0.116	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Dimethyl phthalate	NELAP	0.11	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Di-n-butyl phthalate	NELAP	0.125	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Di-n-octyl phthalate	NELAP	0.126	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Hexachlorobenzene	NELAP	0.118	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Hexachlorobutadiene	NELAP	0.187	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Hexachlorocyclopentadiene	NELAP	0.123	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Hexachloroethane	NELAP	0.202	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Isophorone	NELAP	0.143	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
m,p-Cresol	NELAP	0.152	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Nitrobenzene	NELAP	0.151	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
N-Nitroso-di-n-propylamine	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
N-Nitrosodiphenylamine	NELAP	0.111	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
o-Cresol	NELAP	0.143	0.605		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Pentachlorophenol	NELAP	0.798	2.42		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Phenol	NELAP	0.14	0.423		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/02/2013 6:52	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.5	%REC	1	09/02/2013 6:52	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		58.5	%REC	1	09/02/2013 6:52	91529
Surr: 2-Fluorophenol		0	30.5-99		58.8	%REC	1	09/02/2013 6:52	91529
Surr: Nitrobenzene-d5		0	34.1-101		70.7	%REC	1	09/02/2013 6:52	91529
Surr: Phenol-d5		0	34.9-110		60.8	%REC	1	09/02/2013 6:52	91529
Surr: p-Terphenyl-d14		0	41.7-124		62.3	%REC	1	09/02/2013 6:52	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,1,1,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
2-Butanone	NELAP	0.0098	0.049		0.127	mg/Kg-dry	1	09/03/2013 18:33	91590
2-Hexanone	NELAP	0.0098	0.049		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
4-Methyl-2-pentanone	NELAP	0.0098	0.049		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Acetone	NELAP	0.0098	0.049		0.255	mg/Kg-dry	1	09/03/2013 18:33	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-003

Client Sample ID: 1467V-9-B03

Matrix: SOLID

Collection Date: 08/28/2013 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0005	0.001		0.007	mg/Kg-dry	1	09/03/2013 18:33	91590
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Ethylbenzene	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	09/03/2013 18:33	91590
m,p-Xylenes	NELAP	0.001	0.005		0.008	mg/Kg-dry	1	09/03/2013 18:33	91590
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
o-Xylene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/03/2013 18:33	91590
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Toluene	NELAP	0.001	0.005		0.014	mg/Kg-dry	1	09/03/2013 18:33	91590
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Vinyl acetate	NELAP	0.0196	0.049		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/03/2013 18:33	91590
Xylenes, Total	NELAP	0.001	0.005		0.011	mg/Kg-dry	1	09/03/2013 18:33	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.9	%REC	1	09/03/2013 18:33	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		110.8	%REC	1	09/03/2013 18:33	91590
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	09/03/2013 18:33	91590
Surr: Toluene-d8		0	86-116		101.5	%REC	1	09/03/2013 18:33	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-004

Client Sample ID: 1467V-9-B04

Matrix: SOLID

Collection Date: 08/28/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.3	%	1	08/29/2013 16:50	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.7	%	1	08/29/2013 16:50	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.52		1	08/30/2013 9:46	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.513	mg/L	1	09/10/2013 11:17	91713
Manganese	NELAP	0.0016	0.005		0.0236	mg/L	1	09/10/2013 11:17	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.145	mg/L	1	09/05/2013 11:21	91626
Beryllium	NELAP	0.0003	0.001	J	0.0005	mg/L	1	09/05/2013 11:21	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:21	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:21	91626
Chromium	NELAP	0.004	0.01		0.0236	mg/L	1	09/05/2013 11:21	91626
Cobalt	NELAP	0.0022	0.01	J	0.0044	mg/L	1	09/05/2013 11:21	91626
Iron	NELAP	0.007	0.02	X	21.1	mg/L	1	09/05/2013 11:21	91626
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:21	91626
Manganese	NELAP	0.0016	0.005	X	0.179	mg/L	1	09/05/2013 11:21	91626
Nickel	NELAP	0.0033	0.01		0.0163	mg/L	1	09/05/2013 11:21	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:21	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:21	91626
Zinc	NELAP	0.0021	0.01		0.053	mg/L	1	09/05/2013 11:21	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 11:12	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 9:48	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:47	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		15800	mg/Kg-dry	1	09/03/2013 23:01	91509
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/04/2013 0:37	91538
Arsenic	NELAP	1.14	2.27		7.63	mg/Kg-dry	1	09/03/2013 23:01	91509
Barium	NELAP	0.23	0.45		98.1	mg/Kg-dry	1	09/03/2013 23:01	91509
Beryllium	NELAP	0.05	0.09		0.7	mg/Kg-dry	1	09/03/2013 23:01	91509
Boron	NELAP	0.91	1.82		7.76	mg/Kg-dry	1	09/03/2013 23:01	91509
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	09/03/2013 23:01	91509
Calcium	NELAP	2.27	4.55		1870	mg/Kg-dry	1	09/03/2013 23:01	91509
Chromium	NELAP	0.45	0.91	X	22.2	mg/Kg-dry	1	09/03/2013 23:01	91509
Cobalt	NELAP	0.45	0.91		6.83	mg/Kg-dry	1	09/03/2013 23:01	91509
Copper	NELAP	0.45	0.91		18.7	mg/Kg-dry	1	09/03/2013 23:01	91509
Iron	NELAP	0.91	1.82	X	22300	mg/Kg-dry	1	09/03/2013 23:01	91509
Lead	NELAP	1.82	3.64		9.6	mg/Kg-dry	1	09/03/2013 23:01	91509
Magnesium	NELAP	0.45	0.91		3670	mg/Kg-dry	1	09/03/2013 23:01	91509
Manganese	NELAP	0.23	0.45		365	mg/Kg-dry	1	09/03/2013 23:01	91509
Nickel	NELAP	0.45	0.91		18.3	mg/Kg-dry	1	09/03/2013 23:01	91509
Potassium	NELAP	4.55	9.09		1920	mg/Kg-dry	1	09/03/2013 23:01	91509

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-004

Client Sample ID: 1467V-9-B04

Matrix: SOLID

Collection Date: 08/28/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/03/2013 23:01	91509
Sodium	NELAP	2.27	4.55		263	mg/Kg-dry	1	09/03/2013 23:01	91509
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/03/2013 23:01	91509
Vanadium	NELAP	0.45	0.91		33.2	mg/Kg-dry	1	09/03/2013 23:01	91509
Zinc	NELAP	0.45	0.91		48.2	mg/Kg-dry	1	09/03/2013 23:01	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/03/2013 15:36	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.037	mg/Kg-dry	1	08/30/2013 9:30	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.152	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
1,2-Dichlorobenzene	NELAP	0.182	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
1,3-Dichlorobenzene	NELAP	0.192	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
1,4-Dichlorobenzene	NELAP	0.182	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4,5-Trichlorophenol	NELAP	0.109	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4,6-Trichlorophenol	NELAP	0.144	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4-Dichlorophenol	NELAP	0.138	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4-Dimethylphenol	NELAP	0.145	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4-Dinitrophenol	NELAP	0.122	1.14		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,4-Dinitrotoluene	NELAP	0.119	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2,6-Dinitrotoluene	NELAP	0.123	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2-Chloronaphthalene	NELAP	0.137	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2-Chlorophenol	NELAP	0.145	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2-Methylnaphthalene	NELAP	0.136	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2-Nitroaniline	NELAP	0.104	1.14		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
2-Nitrophenol	NELAP	0.128	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
3,3'-Dichlorobenzidine	NELAP	0.229	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
3-Nitroaniline	NELAP	0.094	1.14		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4,6-Dinitro-2-methylphenol	NELAP	0.123	1.14		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Bromophenyl phenyl ether	NELAP	0.105	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Chloro-3-methylphenol	NELAP	0.126	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Chloroaniline	NELAP	0.138	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Chlorophenyl phenyl ether	NELAP	0.113	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Nitroaniline	NELAP	0.104	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
4-Nitrophenol	NELAP	0.112	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Bis(2-chloroethoxy)methane	NELAP	0.134	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Bis(2-chloroethyl)ether	NELAP	0.162	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Bis(2-chloroisopropyl)ether	NELAP	0.13	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-004

Client Sample ID: 1467V-9-B04

Matrix: SOLID

Collection Date: 08/28/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.134	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Butyl benzyl phthalate	NELAP	0.115	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Carbazole		0.139	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Dibenzofuran	NELAP	0.144	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Diethyl phthalate	NELAP	0.11	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Dimethyl phthalate	NELAP	0.104	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Di-n-butyl phthalate	NELAP	0.118	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Di-n-octyl phthalate	NELAP	0.119	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Hexachlorobenzene	NELAP	0.112	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Hexachlorobutadiene	NELAP	0.177	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Hexachlorocyclopentadiene	NELAP	0.117	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Hexachloroethane	NELAP	0.191	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Isophorone	NELAP	0.135	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
m,p-Cresol	NELAP	0.144	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Nitrobenzene	NELAP	0.143	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
N-Nitroso-di-n-propylamine	NELAP	0.126	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
N-Nitrosodiphenylamine	NELAP	0.105	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
o-Cresol	NELAP	0.135	0.571		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Pentachlorophenol	NELAP	0.754	2.29		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Phenol	NELAP	0.133	0.4		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 22:55	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		74.2	%REC	1	09/03/2013 22:55	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		65.6	%REC	1	09/03/2013 22:55	91529
Surr: 2-Fluorophenol		0	30.5-99		67.1	%REC	1	09/03/2013 22:55	91529
Surr: Nitrobenzene-d5		0	34.1-101		67.3	%REC	1	09/03/2013 22:55	91529
Surr: Phenol-d5		0	34.9-110		73.3	%REC	1	09/03/2013 22:55	91529
Surr: p-Terphenyl-d14		0	41.7-124		92.2	%REC	1	09/03/2013 22:55	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
2-Butanone	NELAP	0.0082	0.041		0.059	mg/Kg-dry	1	09/03/2013 18:59	91590
2-Hexanone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
4-Methyl-2-pentanone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/03/2013 18:59	91590



Laboratory Results

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Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-004

Client Sample ID: 1467V-9-B04

Matrix: SOLID

Collection Date: 08/28/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0082	0.041		0.164	mg/Kg-dry	1	09/03/2013 18:59	91590
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Vinyl acetate	NELAP	0.0164	0.041		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/03/2013 18:59	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		114.2	%REC	1	09/03/2013 18:59	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		104.1	%REC	1	09/03/2013 18:59	91590
Surr: Dibromofluoromethane		0	77.7-120		103.6	%REC	1	09/03/2013 18:59	91590
Surr: Toluene-d8		0	86-116		100.9	%REC	1	09/03/2013 18:59	91590

Allowable Marginal Exceedance of Dibromochloromethane in the LCS/LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-005

Client Sample ID: 1467V-9-B05

Matrix: SOLID

Collection Date: 08/28/2013 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.7	%	1	08/29/2013 16:50	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.3	%	1	08/29/2013 16:50	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.35		1	08/30/2013 9:49	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.112	mg/L	1	09/10/2013 11:45	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0865	mg/L	1	09/05/2013 11:25	91626
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/05/2013 11:25	91626
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:25	91626
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:25	91626
Chromium	NELAP	0.004	0.01		0.0202	mg/L	1	09/05/2013 11:25	91626
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/05/2013 11:25	91626
Iron	NELAP	0.007	0.02	X	12	mg/L	1	09/05/2013 11:25	91626
Lead	NELAP	0.006	0.007	J	0.0066	mg/L	1	09/05/2013 11:25	91626
Manganese	NELAP	0.0016	0.005		0.0332	mg/L	1	09/05/2013 11:25	91626
Nickel	NELAP	0.0033	0.01		0.0117	mg/L	1	09/05/2013 11:25	91626
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:25	91626
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:25	91626
Zinc	NELAP	0.0021	0.01		0.0314	mg/L	1	09/05/2013 11:25	91626
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 11:16	91628
Thallium, SPLP by GFAA	NELAP	0.0005	0.002	J	0.0006	mg/L	1	09/06/2013 9:52	91628
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 14:49	91635
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		15100	mg/Kg-dry	1	09/03/2013 23:08	91509
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/04/2013 0:41	91538
Arsenic	NELAP	1.2	2.4		5.29	mg/Kg-dry	1	09/03/2013 23:08	91509
Barium	NELAP	0.24	0.48		107	mg/Kg-dry	1	09/03/2013 23:08	91509
Beryllium	NELAP	0.05	0.1		0.72	mg/Kg-dry	1	09/03/2013 23:08	91509
Boron	NELAP	0.96	1.92		6.06	mg/Kg-dry	1	09/03/2013 23:08	91509
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 23:08	91509
Calcium	NELAP	2.4	4.81		4080	mg/Kg-dry	1	09/03/2013 23:08	91509
Chromium	NELAP	0.48	0.96	X	23.6	mg/Kg-dry	1	09/03/2013 23:08	91509
Cobalt	NELAP	0.48	0.96		7.7	mg/Kg-dry	1	09/03/2013 23:08	91509
Copper	NELAP	0.48	0.96		15.2	mg/Kg-dry	1	09/03/2013 23:08	91509
Iron	NELAP	0.96	1.92	X	22100	mg/Kg-dry	1	09/03/2013 23:08	91509
Lead	NELAP	1.92	3.85		12.4	mg/Kg-dry	1	09/03/2013 23:08	91509
Magnesium	NELAP	0.48	0.96		4460	mg/Kg-dry	1	09/03/2013 23:08	91509
Manganese	NELAP	0.24	0.48		103	mg/Kg-dry	1	09/03/2013 23:08	91509
Nickel	NELAP	0.48	0.96		21.7	mg/Kg-dry	1	09/03/2013 23:08	91509
Potassium	NELAP	4.81	9.62		1490	mg/Kg-dry	1	09/03/2013 23:08	91509
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/03/2013 23:08	91509

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-005

Client Sample ID: 1467V-9-B05

Matrix: SOLID

Collection Date: 08/28/2013 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81		339	mg/Kg-dry	1	09/03/2013 23:08	91509
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/03/2013 23:08	91509
Vanadium	NELAP	0.48	0.96		43.2	mg/Kg-dry	1	09/03/2013 23:08	91509
Zinc	NELAP	0.48	0.96		53.5	mg/Kg-dry	1	09/03/2013 23:08	91509
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/03/2013 15:46	91511
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.039	mg/Kg-dry	1	08/30/2013 9:32	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.151	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
1,2-Dichlorobenzene	NELAP	0.18	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
1,3-Dichlorobenzene	NELAP	0.19	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
1,4-Dichlorobenzene	NELAP	0.18	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4,5-Trichlorophenol	NELAP	0.108	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4,6-Trichlorophenol	NELAP	0.143	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4-Dichlorophenol	NELAP	0.137	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4-Dimethylphenol	NELAP	0.144	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4-Dinitrophenol	NELAP	0.121	1.13		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,4-Dinitrotoluene	NELAP	0.118	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2,6-Dinitrotoluene	NELAP	0.122	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2-Chloronaphthalene	NELAP	0.136	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2-Chlorophenol	NELAP	0.144	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2-Methylnaphthalene	NELAP	0.135	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2-Nitroaniline	NELAP	0.103	1.13		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
2-Nitrophenol	NELAP	0.127	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
3,3'-Dichlorobenzidine	NELAP	0.227	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
3-Nitroaniline	NELAP	0.093	1.13		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Bromophenyl phenyl ether	NELAP	0.104	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Chloro-3-methylphenol	NELAP	0.125	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Chloroaniline	NELAP	0.137	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Chlorophenyl phenyl ether	NELAP	0.112	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Nitroaniline	NELAP	0.103	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
4-Nitrophenol	NELAP	0.111	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Bis(2-chloroethoxy)methane	NELAP	0.133	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Bis(2-chloroethyl)ether	NELAP	0.161	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Bis(2-chloroisopropyl)ether	NELAP	0.129	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.133	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-005

Client Sample ID: 1467V-9-B05

Matrix: SOLID

Collection Date: 08/28/2013 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.114	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Carbazole		0.138	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Dibenzofuran	NELAP	0.143	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Diethyl phthalate	NELAP	0.109	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Dimethyl phthalate	NELAP	0.103	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Di-n-butyl phthalate	NELAP	0.117	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Di-n-octyl phthalate	NELAP	0.118	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Hexachlorobenzene	NELAP	0.111	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Hexachlorobutadiene	NELAP	0.176	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Hexachlorocyclopentadiene	NELAP	0.116	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Hexachloroethane	NELAP	0.189	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Isophorone	NELAP	0.134	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
m,p-Cresol	NELAP	0.143	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Nitrobenzene	NELAP	0.142	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
N-Nitroso-di-n-propylamine	NELAP	0.125	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
N-Nitrosodiphenylamine	NELAP	0.104	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
o-Cresol	NELAP	0.134	0.567		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Pentachlorophenol	NELAP	0.748	2.27		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Phenol	NELAP	0.131	0.397		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/03/2013 23:27	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		76.5	%REC	1	09/03/2013 23:27	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		69	%REC	1	09/03/2013 23:27	91529
Surr: 2-Fluorophenol		0	30.5-99		68.6	%REC	1	09/03/2013 23:27	91529
Surr: Nitrobenzene-d5		0	34.1-101		78.4	%REC	1	09/03/2013 23:27	91529
Surr: Phenol-d5		0	34.9-110		72.1	%REC	1	09/03/2013 23:27	91529
Surr: p-Terphenyl-d14		0	41.7-124		92.1	%REC	1	09/03/2013 23:27	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,1,2,2-Tetrachloroethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,1,2-Trichloroethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,1-Dichloroethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,1-Dichloroethene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,2-Dichloroethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,2-Dichloropropane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
1,3-Dichloropropene, Total		0.0013	0.005		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
2-Butanone	NELAP	0.0129	0.065		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
2-Hexanone	NELAP	0.0129	0.065		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
4-Methyl-2-pentanone	NELAP	0.0129	0.065		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Acetone	NELAP	0.0129	0.065		ND	mg/Kg-dry	1	09/04/2013 10:53	91590



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081494

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081494-005

Client Sample ID: 1467V-9-B05

Matrix: SOLID

Collection Date: 08/28/2013 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0006	0.001		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Bromodichloromethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Bromoform	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Bromomethane	NELAP	0.0026	0.013		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Carbon disulfide	NELAP	0.0039	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Carbon tetrachloride	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Chlorobenzene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Chloroethane	NELAP	0.0026	0.013		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Chloroform	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Chloromethane	NELAP	0.0026	0.013		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
cis-1,2-Dichloroethene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
cis-1,3-Dichloropropene	NELAP	0.0013	0.005		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Dibromochloromethane	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Ethylbenzene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
m,p-Xylenes	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Methyl tert-butyl ether	NELAP	0.0006	0.003		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Methylene chloride	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
o-Xylene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Styrene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Tetrachloroethene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Toluene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
trans-1,2-Dichloroethene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
trans-1,3-Dichloropropene	NELAP	0.0013	0.005		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Trichloroethene	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Vinyl acetate	NELAP	0.0258	0.065		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Vinyl chloride	NELAP	0.0006	0.003		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Xylenes, Total	NELAP	0.0013	0.006		ND	mg/Kg-dry	1	09/04/2013 10:53	91590
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104.2	%REC	1	09/04/2013 10:53	91590
Surr: 4-Bromofluorobenzene		0	82.1-116		103	%REC	1	09/04/2013 10:53	91590
Surr: Dibromofluoromethane		0	77.7-120		100.7	%REC	1	09/04/2013 10:53	91590
Surr: Toluene-d8		0	86-116		101.2	%REC	1	09/04/2013 10:53	91590

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Drive Kane Co</u> Project No.: <u>ID07 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13081494</u> Sample Temp.: <u>47 ice</u>													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13081494-001	1467V-9-B01	8-28-13	10:00AM	S	X	X					X	X	X	X		0-4
002	1467V-9-B02	8-28-13	10:20AM													0-4
003	1467V-9-B03	8-28-13	10:30AM													0-4
004	1467V-9-B04	8-28-13	10:15AM													0-4
005	1467V-9-B05	8-28-13	9:55AM													0-4
006	1467V-9-B06	8-28-13	9:45AM	S	X	X					X	X	X	X		0-4
Relinquished by: <u>Shelly Hennessy</u>					Date/Time											
					8-28-13 3:25PM	Received by: <u>Shelly Hennessy</u>										
Relinquished by: <u>Shelly Hennessy</u>					Date/Time											
					8-28-13 6:30AM	Received by: <u>Shelly Hennessy</u>										
Relinquished by: <u>Shelly Hennessy</u>					Date/Time											
					8-28-13 21:30	Received by: <u>Shelly Hennessy</u>										



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15N100 block of IL 47

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08574 Longitude: -88.45625

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North JunctionLatitude: 42.08574 Longitude: -88.45625Uncontaminated Site Certification**III. Basis for Certification and Attachments**

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 1467V-10-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 1467V-10. SEE FIGURE 5 AND TABLE 3j OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081495

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

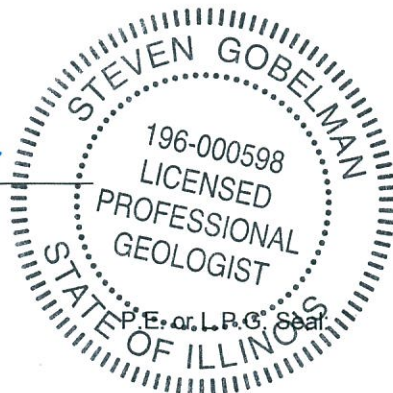
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 7/8/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-10

IDOT Pump Station

Sample ID	1467V-10-B01	1467V-10-B01 DUP	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4						
Sample Date	8/28/2013	8/28/2013						
PID	0	0						
Sample pH	8.99	9						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081495

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-001

Client Sample ID: 1467V-10-B01

Matrix: SOLID

Collection Date: 08/28/2013 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		14.6	%	1	08/29/2013 16:51	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		85.4	%	1	08/29/2013 16:51	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.99		1	08/30/2013 9:53	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0719	mg/L	1	09/10/2013 11:57	91713
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/10/2013 11:57	91713
Manganese	NELAP	0.0016	0.005		0.0878	mg/L	1	09/10/2013 11:57	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0048	0.01		0.209	mg/L	2	09/05/2013 12:25	91627
Beryllium	NELAP	0.0003	0.001		0.0011	mg/L	1	09/05/2013 11:43	91627
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:43	91627
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:43	91627
Chromium	NELAP	0.008	0.02		0.0482	mg/L	2	09/05/2013 12:25	91627
Cobalt	NELAP	0.0022	0.01		0.0101	mg/L	1	09/05/2013 11:43	91627
Iron	NELAP	0.014	0.04	X	43.4	mg/L	2	09/05/2013 12:25	91627
Lead	NELAP	0.012	0.014	X	0.0174	mg/L	2	09/05/2013 12:25	91627
Manganese	NELAP	0.0032	0.01	X	0.383	mg/L	2	09/05/2013 12:25	91627
Nickel	NELAP	0.0066	0.02		0.0352	mg/L	2	09/05/2013 12:25	91627
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:43	91627
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:43	91627
Zinc	NELAP	0.0042	0.02		0.124	mg/L	2	09/05/2013 12:25	91627
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 11:56	91629
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 10:05	91629
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 15:07	91636
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		9340	mg/Kg-dry	1	09/03/2013 19:40	91503
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/03/2013 20:53	91523
Arsenic	NELAP	1.18	2.36		7.77	mg/Kg-dry	1	09/03/2013 19:40	91503
Barium	NELAP	0.24	0.47		69.2	mg/Kg-dry	1	09/03/2013 19:40	91503
Beryllium	NELAP	0.05	0.09		0.47	mg/Kg-dry	1	09/03/2013 19:40	91503
Boron	NELAP	0.94	1.89		6.2	mg/Kg-dry	1	09/03/2013 19:40	91503
Cadmium	NELAP	0.09	0.19	J	0.13	mg/Kg-dry	1	09/03/2013 19:40	91503
Calcium	NELAP	2.36	4.72		30400	mg/Kg-dry	1	09/03/2013 19:40	91503
Chromium	NELAP	0.47	0.94	X	16	mg/Kg-dry	1	09/03/2013 19:40	91503
Cobalt	NELAP	0.47	0.94		5.91	mg/Kg-dry	1	09/03/2013 19:40	91503
Copper	NELAP	0.47	0.94		15.3	mg/Kg-dry	1	09/03/2013 19:40	91503
Iron	NELAP	0.94	1.89		14700	mg/Kg-dry	1	09/03/2013 19:40	91503
Lead	NELAP	1.89	3.77		15.7	mg/Kg-dry	1	09/03/2013 19:40	91503
Magnesium	NELAP	0.47	0.94		15900	mg/Kg-dry	1	09/03/2013 19:40	91503
Manganese	NELAP	0.24	0.47		380	mg/Kg-dry	1	09/03/2013 19:40	91503
Nickel	NELAP	0.47	0.94		15.3	mg/Kg-dry	1	09/03/2013 19:40	91503
Potassium	NELAP	4.72	9.43		1360	mg/Kg-dry	1	09/03/2013 19:40	91503

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-001

Client Sample ID: 1467V-10-B01

Matrix: SOLID

Collection Date: 08/28/2013 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/03/2013 19:40	91503
Sodium	NELAP	2.36	4.72		2140	mg/Kg-dry	1	09/03/2013 19:40	91503
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/03/2013 19:40	91503
Vanadium	NELAP	0.47	0.94		24	mg/Kg-dry	1	09/03/2013 19:40	91503
Zinc	NELAP	0.47	0.94		42.8	mg/Kg-dry	1	09/03/2013 19:40	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/03/2013 10:40	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.018	mg/Kg-dry	1	08/30/2013 9:41	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
1,2-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
1,3-Dichlorobenzene	NELAP	0.195	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
1,4-Dichlorobenzene	NELAP	0.185	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4,5-Trichlorophenol	NELAP	0.11	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4,6-Trichlorophenol	NELAP	0.146	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4-Dichlorophenol	NELAP	0.141	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4-Dimethylphenol	NELAP	0.147	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,4-Dinitrotoluene	NELAP	0.121	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2,6-Dinitrotoluene	NELAP	0.125	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2-Chloronaphthalene	NELAP	0.139	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2-Chlorophenol	NELAP	0.147	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2-Methylnaphthalene	NELAP	0.138	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2-Nitroaniline	NELAP	0.106	1.16		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
2-Nitrophenol	NELAP	0.13	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
3,3'-Dichlorobenzidine	NELAP	0.232	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Bromophenyl phenyl ether	NELAP	0.107	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Chloro-3-methylphenol	NELAP	0.128	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Chloroaniline	NELAP	0.141	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Chlorophenyl phenyl ether	NELAP	0.115	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Nitroaniline	NELAP	0.106	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
4-Nitrophenol	NELAP	0.114	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Bis(2-chloroethoxy)methane	NELAP	0.136	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Bis(2-chloroethyl)ether	NELAP	0.165	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-001

Client Sample ID: 1467V-10-B01

Matrix: SOLID

Collection Date: 08/28/2013 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.136	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Butyl benzyl phthalate	NELAP	0.117	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Carbazole		0.142	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Dibenzofuran	NELAP	0.146	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Diethyl phthalate	NELAP	0.111	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Dimethyl phthalate	NELAP	0.106	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Di-n-butyl phthalate	NELAP	0.12	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Di-n-octyl phthalate	NELAP	0.121	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Hexachlorobenzene	NELAP	0.114	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Hexachlorobutadiene	NELAP	0.18	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Hexachlorocyclopentadiene	NELAP	0.118	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Hexachloroethane	NELAP	0.194	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Isophorone	NELAP	0.137	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
m,p-Cresol	NELAP	0.146	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Nitrobenzene	NELAP	0.145	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
N-Nitroso-di-n-propylamine	NELAP	0.128	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
N-Nitrosodiphenylamine	NELAP	0.107	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
o-Cresol	NELAP	0.137	0.581		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Pentachlorophenol	NELAP	0.767	2.32		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Phenol	NELAP	0.135	0.406		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 0:33	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		76.7	%REC	1	09/04/2013 0:33	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		71.8	%REC	1	09/04/2013 0:33	91529
Surr: 2-Fluorophenol		0	30.5-99		66.6	%REC	1	09/04/2013 0:33	91529
Surr: Nitrobenzene-d5		0	34.1-101		71.5	%REC	1	09/04/2013 0:33	91529
Surr: Phenol-d5		0	34.9-110		72.3	%REC	1	09/04/2013 0:33	91529
Surr: p-Terphenyl-d14		0	41.7-124		92.5	%REC	1	09/04/2013 0:33	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
2-Butanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
2-Hexanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
4-Methyl-2-pentanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	08/30/2013 17:40	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-001

Client Sample ID: 1467V-10-B01

Matrix: SOLID

Collection Date: 08/28/2013 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0086	0.043	J	0.031	mg/Kg-dry	1	08/30/2013 17:40	91559
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	08/30/2013 17:40	91559
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Ethylbenzene	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 17:40	91559
m,p-Xylenes	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 17:40	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Methylene chloride	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 17:40	91559
o-Xylene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 17:40	91559
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Toluene	NELAP	0.0009	0.004		0.005	mg/Kg-dry	1	08/30/2013 17:40	91559
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Vinyl acetate	NELAP	0.0172	0.043		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 17:40	91559
Xylenes, Total	NELAP	0.0009	0.004	J	0.003	mg/Kg-dry	1	08/30/2013 17:40	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		122.2	%REC	1	08/30/2013 17:40	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		103	%REC	1	08/30/2013 17:40	91559
Surr: Dibromofluoromethane		0	77.7-120		102.8	%REC	1	08/30/2013 17:40	91559
Surr: Toluene-d8		0	86-116		99.3	%REC	1	08/30/2013 17:40	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-002

Client Sample ID: 1467V-10-B01 DUP

Matrix: SOLID

Collection Date: 08/28/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		13	%	1	08/29/2013 16:51	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87	%	1	08/29/2013 16:51	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		9		1	08/30/2013 10:01	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0526	mg/L	1	09/10/2013 12:03	91713
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/10/2013 12:03	91713
Manganese	NELAP	0.0016	0.005		0.37	mg/L	1	09/10/2013 12:03	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.208	mg/L	1	09/05/2013 11:54	91627
Beryllium	NELAP	0.0003	0.001		0.0011	mg/L	1	09/05/2013 11:54	91627
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:54	91627
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:54	91627
Chromium	NELAP	0.004	0.01		0.0421	mg/L	1	09/05/2013 11:54	91627
Cobalt	NELAP	0.0022	0.01		0.0118	mg/L	1	09/05/2013 11:54	91627
Iron	NELAP	0.007	0.02	X	39.1	mg/L	1	09/05/2013 11:54	91627
Lead	NELAP	0.006	0.007	X	0.0157	mg/L	1	09/05/2013 11:54	91627
Manganese	NELAP	0.0016	0.005	X	0.343	mg/L	1	09/05/2013 11:54	91627
Nickel	NELAP	0.0033	0.01		0.0369	mg/L	1	09/05/2013 11:54	91627
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:54	91627
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:54	91627
Zinc	NELAP	0.0021	0.01		0.102	mg/L	1	09/05/2013 11:54	91627
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 12:00	91629
Thallium, SPLP by GFAA	NELAP	0.0005	0.002	J	0.0008	mg/L	1	09/06/2013 10:16	91629
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 15:09	91636
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		8370	mg/Kg-dry	1	09/03/2013 19:46	91503
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/03/2013 20:57	91523
Arsenic	NELAP	1.14	2.27		6.03	mg/Kg-dry	1	09/03/2013 19:46	91503
Barium	NELAP	0.23	0.45		54.1	mg/Kg-dry	1	09/03/2013 19:46	91503
Beryllium	NELAP	0.05	0.09		0.42	mg/Kg-dry	1	09/03/2013 19:46	91503
Boron	NELAP	0.91	1.82		6.19	mg/Kg-dry	1	09/03/2013 19:46	91503
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	09/03/2013 19:46	91503
Calcium	NELAP	2.27	4.55		53900	mg/Kg-dry	1	09/03/2013 19:46	91503
Chromium	NELAP	0.45	0.91	X	14.5	mg/Kg-dry	1	09/03/2013 19:46	91503
Cobalt	NELAP	0.45	0.91		4.99	mg/Kg-dry	1	09/03/2013 19:46	91503
Copper	NELAP	0.45	0.91		13.2	mg/Kg-dry	1	09/03/2013 19:46	91503
Iron	NELAP	0.91	1.82		13900	mg/Kg-dry	1	09/03/2013 19:46	91503
Lead	NELAP	1.82	3.64		10.9	mg/Kg-dry	1	09/03/2013 19:46	91503
Magnesium	NELAP	0.45	0.91		26700	mg/Kg-dry	1	09/03/2013 19:46	91503
Manganese	NELAP	0.23	0.45		314	mg/Kg-dry	1	09/03/2013 19:46	91503
Nickel	NELAP	0.45	0.91		13.3	mg/Kg-dry	1	09/03/2013 19:46	91503
Potassium	NELAP	4.55	9.09		1530	mg/Kg-dry	1	09/03/2013 19:46	91503

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-002

Client Sample ID: 1467V-10-B01 DUP

Matrix: SOLID

Collection Date: 08/28/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/03/2013 19:46	91503
Sodium	NELAP	2.27	4.55		1870	mg/Kg-dry	1	09/03/2013 19:46	91503
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/03/2013 19:46	91503
Vanadium	NELAP	0.45	0.91		21.9	mg/Kg-dry	1	09/03/2013 19:46	91503
Zinc	NELAP	0.45	0.91		35.8	mg/Kg-dry	1	09/03/2013 19:46	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/03/2013 10:43	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.013	mg/Kg-dry	1	08/30/2013 9:43	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.153	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
1,2-Dichlorobenzene	NELAP	0.183	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
1,3-Dichlorobenzene	NELAP	0.193	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
1,4-Dichlorobenzene	NELAP	0.183	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4,5-Trichlorophenol	NELAP	0.109	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4,6-Trichlorophenol	NELAP	0.145	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4-Dichlorophenol	NELAP	0.139	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4-Dimethylphenol	NELAP	0.146	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4-Dinitrophenol	NELAP	0.123	1.15		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,4-Dinitrotoluene	NELAP	0.12	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2,6-Dinitrotoluene	NELAP	0.124	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2-Chloronaphthalene	NELAP	0.138	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2-Chlorophenol	NELAP	0.146	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2-Methylnaphthalene	NELAP	0.137	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2-Nitroaniline	NELAP	0.105	1.15		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
2-Nitrophenol	NELAP	0.129	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
3,3'-Dichlorobenzidine	NELAP	0.23	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
3-Nitroaniline	NELAP	0.094	1.15		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4,6-Dinitro-2-methylphenol	NELAP	0.124	1.15		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Bromophenyl phenyl ether	NELAP	0.106	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Chloro-3-methylphenol	NELAP	0.127	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Chloroaniline	NELAP	0.139	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Chlorophenyl phenyl ether	NELAP	0.114	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Nitroaniline	NELAP	0.105	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
4-Nitrophenol	NELAP	0.113	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Bis(2-chloroethoxy)methane	NELAP	0.135	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Bis(2-chloroethyl)ether	NELAP	0.163	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Bis(2-chloroisopropyl)ether	NELAP	0.131	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-002

Client Sample ID: 1467V-10-B01 DUP

Matrix: SOLID

Collection Date: 08/28/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.135	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Butyl benzyl phthalate	NELAP	0.116	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Carbazole		0.14	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Dibenzofuran	NELAP	0.145	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Diethyl phthalate	NELAP	0.111	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Dimethyl phthalate	NELAP	0.105	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Di-n-butyl phthalate	NELAP	0.119	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Di-n-octyl phthalate	NELAP	0.12	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Fluoranthene	NELAP	0.019	0.039	J	0.032	mg/Kg-dry	1	09/04/2013 1:06	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Hexachlorobenzene	NELAP	0.113	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Hexachlorobutadiene	NELAP	0.178	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Hexachlorocyclopentadiene	NELAP	0.117	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Hexachloroethane	NELAP	0.192	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Isophorone	NELAP	0.136	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
m,p-Cresol	NELAP	0.145	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Nitrobenzene	NELAP	0.144	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
N-Nitroso-di-n-propylamine	NELAP	0.127	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
N-Nitrosodiphenylamine	NELAP	0.106	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
o-Cresol	NELAP	0.136	0.576		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Pentachlorophenol	NELAP	0.76	2.3		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Phenol	NELAP	0.134	0.403		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/04/2013 1:06	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		71.6	%REC	1	09/04/2013 1:06	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		65	%REC	1	09/04/2013 1:06	91529
Surr: 2-Fluorophenol		0	30.5-99		67.4	%REC	1	09/04/2013 1:06	91529
Surr: Nitrobenzene-d5		0	34.1-101		69.6	%REC	1	09/04/2013 1:06	91529
Surr: Phenol-d5		0	34.9-110		73.2	%REC	1	09/04/2013 1:06	91529
Surr: p-Terphenyl-d14		0	41.7-124		86.9	%REC	1	09/04/2013 1:06	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
2-Butanone	NELAP	0.0077	0.039		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
2-Hexanone	NELAP	0.0077	0.039		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
4-Methyl-2-pentanone	NELAP	0.0077	0.039		ND	mg/Kg-dry	1	08/30/2013 18:09	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081495

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081495-002

Client Sample ID: 1467V-10-B01 DUP

Matrix: SOLID

Collection Date: 08/28/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0077	0.039	J	0.03	mg/Kg-dry	1	08/30/2013 18:09	91559
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	08/30/2013 18:09	91559
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 18:09	91559
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 18:09	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Methylene chloride	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 18:09	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	08/30/2013 18:09	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Vinyl acetate	NELAP	0.0154	0.039		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 18:09	91559
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 18:09	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		120.9	%REC	1	08/30/2013 18:09	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		100.1	%REC	1	08/30/2013 18:09	91559
Surr: Dibromofluoromethane		0	77.7-120		102.8	%REC	1	08/30/2013 18:09	91559
Surr: Toluene-d8		0	86-116		101.2	%REC	1	08/30/2013 18:09	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory
Lab: TekLab, Inc.
Address: 5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: 877-344-1003
Contact: Shelly Hennessy
email: shennessy@teklabinc.com

Project Name: Pingree Drive Kane Co
Project No.: IDOT 2013-018
TAT: [X] 15 BD [] 10 BD [] 5 BD [] 2 BD [] Other
Sampler:

COC No.: 1 of 1
Lab Job No.: 13081495
Sample Temp: 44 F
Matrix Key:

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Table with columns: Lab ID, Sample ID, Sample Date, Sample Time, Matrix, VOCs, SVOCs, BETX & MTBE, PNAS, Pesticides, PCBs, * Total Metals, SPLP/** TCLP Metals, pH, % Solids, Waste Characterization, Comments

Matrix Key:
W: Water
S: Soil
SL: Sludge
S: Sediment
L: Leachate
DW: Drinking Water
OL: Oil
O: Other

Relinquished by: [Signature] Date/Time: 8-28-13 5:25 PM
Relinquished by: [Signature] Date/Time: 8-28-13 6:30 PM
Relinquished by: [Signature] Date/Time: 8/28/13 2:30

Received by: [Signature] Date/Time: 8/28/13 2:30
Received by: [Signature] Date/Time: 8/28/13 2:30
Received by: [Signature] Date/Time: 8/28/13 2:30



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - North Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15N100 block of IL 47

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08479 Longitude: -88.45592

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - North Junction
Latitude: 42.08479 Longitude: -88.45592

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-11-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 1467V-11. SEE FIGURE 5 AND TABLE 3K OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13081496 and 13090002

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

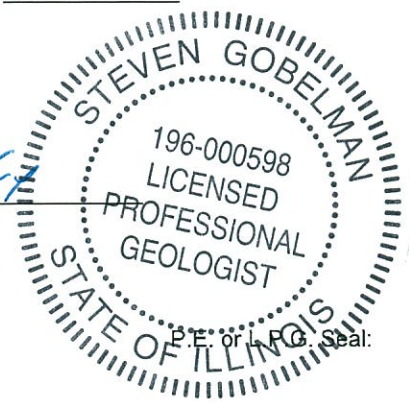
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217.785.4246

Steven Gobelman
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/16/07
Date:



P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-11

Soo Railroad

Sample ID	1467V-11-B01-1	1467V-11-B02-1	1467V-11-B02-2	1467V-11-B03-1	1467V-11-B03-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7	0-7.5	7.5-13	0-7.5	7.5-12						
Sample Date	8/28/2013	8/29/2013	8/29/2013	8/28/2013	8/28/2013						
PID	0	0	0	0	0						
Sample pH	7.86	8.02	8.32	8.15	8.36						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	1467V-11-B04-1	1467V-11-B04-1 DUP	1467V-11-B04-2	1467V-11-B05-1	1467V-11-B05-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7.5	0-7.5	7.5-15	0-7.5	7.5-15						
Sample Date	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013						
PID	0	0	0	0	0						
Sample pH	8.31	8.13	8.21	8.64	8.23						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

September 11, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13081496

Dear Colleen Grey:

TEKLAB, INC received 3 samples on 8/29/2013 8:40:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-001

Client Sample ID: 1467V-11-B01-1

Matrix: SOLID

Collection Date: 08/28/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.2	%	1	08/29/2013 16:51	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.8	%	1	08/29/2013 16:51	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.86		1	08/30/2013 10:04	R181279
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0433	mg/L	1	09/05/2013 11:58	91627
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 11:58	91627
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 11:58	91627
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 11:58	91627
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/05/2013 11:58	91627
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 11:58	91627
Iron	NELAP	0.007	0.02		1.04	mg/L	1	09/05/2013 11:58	91627
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 11:58	91627
Manganese	NELAP	0.0016	0.005		0.0381	mg/L	1	09/05/2013 11:58	91627
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/05/2013 11:58	91627
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 11:58	91627
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 11:58	91627
Zinc	NELAP	0.0021	0.01	J	0.0068	mg/L	1	09/05/2013 11:58	91627
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 12:04	91629
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 10:19	91629
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 15:12	91636
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72	S	10700	mg/Kg-dry	1	09/03/2013 19:52	91503
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 21:00	91523
Arsenic	NELAP	1.18	2.36		3.64	mg/Kg-dry	1	09/03/2013 19:52	91503
Barium	NELAP	0.24	0.47		55.3	mg/Kg-dry	1	09/03/2013 19:52	91503
Beryllium	NELAP	0.05	0.09		0.58	mg/Kg-dry	1	09/03/2013 19:52	91503
Boron	NELAP	0.94	1.89		12.7	mg/Kg-dry	1	09/03/2013 19:52	91503
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/03/2013 19:52	91503
Calcium	NELAP	2.36	4.72	S	91200	mg/Kg-dry	1	09/03/2013 19:52	91503
Chromium	NELAP	0.47	0.94	X	17.9	mg/Kg-dry	1	09/03/2013 19:52	91503
Cobalt	NELAP	0.47	0.94		7.33	mg/Kg-dry	1	09/03/2013 19:52	91503
Copper	NELAP	0.47	0.94		17.9	mg/Kg-dry	1	09/03/2013 19:52	91503
Iron	NELAP	0.94	1.89	SX	17000	mg/Kg-dry	1	09/03/2013 19:52	91503
Lead	NELAP	1.89	3.77		8.36	mg/Kg-dry	1	09/03/2013 19:52	91503
Magnesium	NELAP	0.47	0.94	S	42500	mg/Kg-dry	1	09/03/2013 19:52	91503
Manganese	NELAP	0.24	0.47		419	mg/Kg-dry	1	09/03/2013 19:52	91503
Nickel	NELAP	0.47	0.94		18.9	mg/Kg-dry	1	09/03/2013 19:52	91503
Potassium	NELAP	4.72	9.43	S	2970	mg/Kg-dry	1	09/03/2013 19:52	91503
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/03/2013 19:52	91503
Sodium	NELAP	2.36	4.72		180	mg/Kg-dry	1	09/03/2013 19:52	91503
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/03/2013 19:52	91503
Vanadium	NELAP	0.47	0.94		23.8	mg/Kg-dry	1	09/03/2013 19:52	91503
Zinc	NELAP	0.47	0.94		39.1	mg/Kg-dry	1	09/03/2013 19:52	91503



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-001

Client Sample ID: 1467V-11-B01-1

Matrix: SOLID

Collection Date: 08/28/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>MS QC limits for Al, Ca, Fe, Mg, and K are not applicable due to high sample/spike ratio.</i>									
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577	S	< 0.577	mg/Kg-dry	1	09/04/2013 7:48	91510
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.014	mg/Kg-dry	1	08/30/2013 9:45	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.166	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
1,2-Dichlorobenzene	NELAP	0.199	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
1,3-Dichlorobenzene	NELAP	0.21	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
1,4-Dichlorobenzene	NELAP	0.199	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4,5-Trichlorophenol	NELAP	0.119	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4,6-Trichlorophenol	NELAP	0.157	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4-Dichlorophenol	NELAP	0.151	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4-Dimethylphenol	NELAP	0.159	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4-Dinitrophenol	NELAP	0.134	1.25		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,4-Dinitrotoluene	NELAP	0.13	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2,6-Dinitrotoluene	NELAP	0.135	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2-Chloronaphthalene	NELAP	0.15	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2-Chlorophenol	NELAP	0.159	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2-Methylnaphthalene	NELAP	0.149	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2-Nitroaniline	NELAP	0.114	1.25		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
2-Nitrophenol	NELAP	0.14	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
3,3'-Dichlorobenzidine	NELAP	0.25	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
3-Nitroaniline	NELAP	0.102	1.25		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4,6-Dinitro-2-methylphenol	NELAP	0.135	1.25		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Bromophenyl phenyl ether	NELAP	0.115	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Chloro-3-methylphenol	NELAP	0.137	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Chloroaniline	NELAP	0.151	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Chlorophenyl phenyl ether	NELAP	0.124	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Nitroaniline	NELAP	0.114	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
4-Nitrophenol	NELAP	0.122	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Bis(2-chloroethoxy)methane	NELAP	0.146	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Bis(2-chloroethyl)ether	NELAP	0.177	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.146	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Butyl benzyl phthalate	NELAP	0.126	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Carbazole		0.152	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-001

Client Sample ID: 1467V-11-B01-1

Matrix: SOLID

Collection Date: 08/28/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Dibenzofuran	NELAP	0.157	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Diethyl phthalate	NELAP	0.12	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Dimethyl phthalate	NELAP	0.114	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Di-n-butyl phthalate	NELAP	0.129	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Di-n-octyl phthalate	NELAP	0.13	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Hexachlorobenzene	NELAP	0.122	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Hexachlorobutadiene	NELAP	0.194	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Hexachlorocyclopentadiene	NELAP	0.127	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Hexachloroethane	NELAP	0.209	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Isophorone	NELAP	0.147	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
m,p-Cresol	NELAP	0.157	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Nitrobenzene	NELAP	0.156	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
N-Nitroso-di-n-propylamine	NELAP	0.137	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
N-Nitrosodiphenylamine	NELAP	0.115	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
o-Cresol	NELAP	0.147	0.624		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Pentachlorophenol	NELAP	0.824	2.5		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Phenol	NELAP	0.145	0.437		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/02/2013 9:33	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		58.5	%REC	1	09/02/2013 9:33	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		43.3	%REC	1	09/02/2013 9:33	91529
Surr: 2-Fluorophenol		0	30.5-99		55	%REC	1	09/02/2013 9:33	91529
Surr: Nitrobenzene-d5		0	34.1-101		54.5	%REC	1	09/02/2013 9:33	91529
Surr: Phenol-d5		0	34.9-110		58.1	%REC	1	09/02/2013 9:33	91529
Surr: p-Terphenyl-d14		0	41.7-124		62	%REC	1	09/02/2013 9:33	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,1,2-Trichloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,1-Dichloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,1-Dichloroethene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,2-Dichloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,2-Dichloropropane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
1,3-Dichloropropene, Total		0.0013	0.005		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
2-Butanone	NELAP	0.0133	0.067	J	0.017	mg/Kg-dry	1	08/30/2013 18:38	91559
2-Hexanone	NELAP	0.0133	0.067		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
4-Methyl-2-pentanone	NELAP	0.0133	0.067		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Acetone	NELAP	0.0133	0.067		0.1	mg/Kg-dry	1	08/30/2013 18:38	91559
Benzene	NELAP	0.0007	0.001		0.002	mg/Kg-dry	1	08/30/2013 18:38	91559
Bromodichloromethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-001

Client Sample ID: 1467V-11-B01-1

Matrix: SOLID

Collection Date: 08/28/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Bromomethane	NELAP	0.0027	0.013		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Carbon disulfide	NELAP	0.004	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Carbon tetrachloride	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Chlorobenzene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Chloroethane	NELAP	0.0027	0.013		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Chloroform	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Chloromethane	NELAP	0.0027	0.013		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
cis-1,2-Dichloroethene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
cis-1,3-Dichloropropene	NELAP	0.0013	0.005		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Dibromochloromethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Ethylbenzene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
m,p-Xylenes	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Methyl tert-butyl ether	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Methylene chloride	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
o-Xylene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Styrene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Tetrachloroethene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Toluene	NELAP	0.0013	0.007	J	0.002	mg/Kg-dry	1	08/30/2013 18:38	91559
trans-1,2-Dichloroethene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
trans-1,3-Dichloropropene	NELAP	0.0013	0.005		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Trichloroethene	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Vinyl acetate	NELAP	0.0267	0.067		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Vinyl chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Xylenes, Total	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	08/30/2013 18:38	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		121.6	%REC	1	08/30/2013 18:38	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		100.7	%REC	1	08/30/2013 18:38	91559
Surr: Dibromofluoromethane		0	77.7-120		102.7	%REC	1	08/30/2013 18:38	91559
Surr: Toluene-d8		0	86-116		101.2	%REC	1	08/30/2013 18:38	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-002

Client Sample ID: 1467V-11-B05-1

Matrix: SOLID

Collection Date: 08/28/2013 13:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.8	%	1	08/29/2013 16:51	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.2	%	1	08/29/2013 16:51	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.64		1	08/30/2013 10:06	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0271	mg/L	1	09/10/2013 12:09	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0597	mg/L	1	09/05/2013 12:09	91627
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 12:09	91627
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 12:09	91627
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 12:09	91627
Chromium	NELAP	0.004	0.01	J	0.0093	mg/L	1	09/05/2013 12:09	91627
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/05/2013 12:09	91627
Iron	NELAP	0.007	0.02	X	5.38	mg/L	1	09/05/2013 12:09	91627
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 12:09	91627
Manganese	NELAP	0.0016	0.005		0.0631	mg/L	1	09/05/2013 12:09	91627
Nickel	NELAP	0.0033	0.01	J	0.0061	mg/L	1	09/05/2013 12:09	91627
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 12:09	91627
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 12:09	91627
Zinc	NELAP	0.0021	0.01		0.0194	mg/L	1	09/05/2013 12:09	91627
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 12:08	91629
Thallium, SPLP by GFAA	NELAP	0.0005	0.002	J	0.0005	mg/L	1	09/06/2013 10:23	91629
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 15:18	91636
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		6730	mg/Kg-dry	1	09/03/2013 20:10	91503
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/03/2013 21:19	91523
Arsenic	NELAP	1.25	2.5	J	1.82	mg/Kg-dry	1	09/03/2013 20:10	91503
Barium	NELAP	0.25	0.5		38.1	mg/Kg-dry	1	09/03/2013 20:10	91503
Beryllium	NELAP	0.05	0.1		0.37	mg/Kg-dry	1	09/03/2013 20:10	91503
Boron	NELAP	1	2		9.45	mg/Kg-dry	1	09/03/2013 20:10	91503
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/03/2013 20:10	91503
Calcium	NELAP	2.5	5		81300	mg/Kg-dry	1	09/03/2013 20:10	91503
Chromium	NELAP	0.5	1		12.9	mg/Kg-dry	1	09/03/2013 20:10	91503
Cobalt	NELAP	0.5	1		4.37	mg/Kg-dry	1	09/03/2013 20:10	91503
Copper	NELAP	0.5	1		12.1	mg/Kg-dry	1	09/03/2013 20:10	91503
Iron	NELAP	1	2		10800	mg/Kg-dry	1	09/03/2013 20:10	91503
Lead	NELAP	2	4		5.55	mg/Kg-dry	1	09/03/2013 20:10	91503
Magnesium	NELAP	0.5	1		38400	mg/Kg-dry	1	09/03/2013 20:10	91503
Manganese	NELAP	0.25	0.5		274	mg/Kg-dry	1	09/03/2013 20:10	91503
Nickel	NELAP	0.5	1		12	mg/Kg-dry	1	09/03/2013 20:10	91503
Potassium	NELAP	5	10		1810	mg/Kg-dry	1	09/03/2013 20:10	91503
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/03/2013 20:10	91503
Sodium	NELAP	2.5	5		358	mg/Kg-dry	1	09/03/2013 20:10	91503

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-002

Client Sample ID: 1467V-11-B05-1

Matrix: SOLID

Collection Date: 08/28/2013 13:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/03/2013 20:10	91503
Vanadium	NELAP	0.5	1		17	mg/Kg-dry	1	09/03/2013 20:10	91503
Zinc	NELAP	0.5	1		26.4	mg/Kg-dry	1	09/03/2013 20:10	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566	J	0.355	mg/Kg-dry	1	09/03/2013 11:00	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.008	mg/Kg-dry	1	08/30/2013 9:48	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.154	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
1,2-Dichlorobenzene	NELAP	0.184	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
1,3-Dichlorobenzene	NELAP	0.194	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
1,4-Dichlorobenzene	NELAP	0.184	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4,5-Trichlorophenol	NELAP	0.11	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4,6-Trichlorophenol	NELAP	0.146	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4-Dichlorophenol	NELAP	0.14	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4-Dimethylphenol	NELAP	0.147	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4-Dinitrophenol	NELAP	0.124	1.16		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,4-Dinitrotoluene	NELAP	0.12	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2,6-Dinitrotoluene	NELAP	0.125	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2-Chloronaphthalene	NELAP	0.139	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2-Chlorophenol	NELAP	0.147	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2-Methylnaphthalene	NELAP	0.138	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2-Nitroaniline	NELAP	0.105	1.16		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
2-Nitrophenol	NELAP	0.129	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
3,3'-Dichlorobenzidine	NELAP	0.231	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
3-Nitroaniline	NELAP	0.095	1.16		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4,6-Dinitro-2-methylphenol	NELAP	0.125	1.16		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Bromophenyl phenyl ether	NELAP	0.106	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Chloro-3-methylphenol	NELAP	0.127	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Chloroaniline	NELAP	0.14	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Chlorophenyl phenyl ether	NELAP	0.114	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Nitroaniline	NELAP	0.105	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
4-Nitrophenol	NELAP	0.113	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Bis(2-chloroethoxy)methane	NELAP	0.135	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Bis(2-chloroethyl)ether	NELAP	0.164	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Bis(2-chloroisopropyl)ether	NELAP	0.132	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.135	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Butyl benzyl phthalate	NELAP	0.117	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-002

Client Sample ID: 1467V-11-B05-1

Matrix: SOLID

Collection Date: 08/28/2013 13:40

Analyses Certification MDL RL Qual Result Units DF Date Analyzed Batch

SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Carbazole		0.141	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Dibenzofuran	NELAP	0.146	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Diethyl phthalate	NELAP	0.111	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Dimethyl phthalate	NELAP	0.105	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Di-n-butyl phthalate	NELAP	0.119	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Di-n-octyl phthalate	NELAP	0.12	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Hexachlorobenzene	NELAP	0.113	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Hexachlorobutadiene	NELAP	0.179	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Hexachlorocyclopentadiene	NELAP	0.118	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Hexachloroethane	NELAP	0.193	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Isophorone	NELAP	0.136	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
m,p-Cresol	NELAP	0.146	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Nitrobenzene	NELAP	0.144	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
N-Nitroso-di-n-propylamine	NELAP	0.127	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
N-Nitrosodiphenylamine	NELAP	0.106	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
o-Cresol	NELAP	0.136	0.578		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Pentachlorophenol	NELAP	0.763	2.31		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Phenol	NELAP	0.134	0.404		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 8:28	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		62.2	%REC	1	09/02/2013 8:28	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		44.5	%REC	1	09/02/2013 8:28	91529
Surr: 2-Fluorophenol		0	30.5-99		57	%REC	1	09/02/2013 8:28	91529
Surr: Nitrobenzene-d5		0	34.1-101		59.2	%REC	1	09/02/2013 8:28	91529
Surr: Phenol-d5		0	34.9-110		61.5	%REC	1	09/02/2013 8:28	91529
Surr: p-Terphenyl-d14		0	41.7-124		63.5	%REC	1	09/02/2013 8:28	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
2-Butanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
2-Hexanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
4-Methyl-2-pentanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Acetone	NELAP	0.0076	0.038	J	0.017	mg/Kg-dry	1	08/30/2013 19:05	91559
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	08/30/2013 19:05	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-002

Client Sample ID: 1467V-11-B05-1

Matrix: SOLID

Collection Date: 08/28/2013 13:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 19:05	91559
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 19:05	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	08/30/2013 19:05	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Vinyl acetate	NELAP	0.0152	0.038		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:05	91559
Xylenes, Total	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	08/30/2013 19:05	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		122.2	%REC	1	08/30/2013 19:05	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		100.9	%REC	1	08/30/2013 19:05	91559
Surr: Dibromofluoromethane		0	77.7-120		105.4	%REC	1	08/30/2013 19:05	91559
Surr: Toluene-d8		0	86-116		98.6	%REC	1	08/30/2013 19:05	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-003

Client Sample ID: 1467V-11-B05-2

Matrix: SOLID

Collection Date: 08/28/2013 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12	%	1	08/29/2013 16:52	R181265
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88	%	1	08/29/2013 16:52	R181265
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.23		1	08/30/2013 10:08	R181279
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.158	mg/L	1	09/10/2013 12:15	91713
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0648	mg/L	1	09/05/2013 12:13	91627
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/05/2013 12:13	91627
Boron	NELAP	1	2		< 2	mg/L	1	09/05/2013 12:13	91627
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/05/2013 12:13	91627
Chromium	NELAP	0.004	0.01	J	0.0086	mg/L	1	09/05/2013 12:13	91627
Cobalt	NELAP	0.0022	0.01	J	0.0032	mg/L	1	09/05/2013 12:13	91627
Iron	NELAP	0.007	0.02	X	5.33	mg/L	1	09/05/2013 12:13	91627
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/05/2013 12:13	91627
Manganese	NELAP	0.0016	0.005		0.0743	mg/L	1	09/05/2013 12:13	91627
Nickel	NELAP	0.0033	0.01	J	0.0063	mg/L	1	09/05/2013 12:13	91627
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/05/2013 12:13	91627
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/05/2013 12:13	91627
Zinc	NELAP	0.0021	0.01		0.0127	mg/L	1	09/05/2013 12:13	91627
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/05/2013 12:11	91629
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/06/2013 10:26	91629
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/05/2013 15:21	91636
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		5730	mg/Kg-dry	1	09/03/2013 20:16	91503
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/03/2013 21:22	91523
Arsenic	NELAP	1.14	2.27		3.85	mg/Kg-dry	1	09/03/2013 20:16	91503
Barium	NELAP	0.23	0.45		27.4	mg/Kg-dry	1	09/03/2013 20:16	91503
Beryllium	NELAP	0.05	0.09		0.33	mg/Kg-dry	1	09/03/2013 20:16	91503
Boron	NELAP	0.91	1.82		8.57	mg/Kg-dry	1	09/03/2013 20:16	91503
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	09/03/2013 20:16	91503
Calcium	NELAP	2.27	4.55		80100	mg/Kg-dry	1	09/03/2013 20:16	91503
Chromium	NELAP	0.45	0.91		10.3	mg/Kg-dry	1	09/03/2013 20:16	91503
Cobalt	NELAP	0.45	0.91		4.25	mg/Kg-dry	1	09/03/2013 20:16	91503
Copper	NELAP	0.45	0.91		10.7	mg/Kg-dry	1	09/03/2013 20:16	91503
Iron	NELAP	0.91	1.82		11000	mg/Kg-dry	1	09/03/2013 20:16	91503
Lead	NELAP	1.82	3.64		4.7	mg/Kg-dry	1	09/03/2013 20:16	91503
Magnesium	NELAP	0.45	0.91		37400	mg/Kg-dry	1	09/03/2013 20:16	91503
Manganese	NELAP	0.23	0.45		316	mg/Kg-dry	1	09/03/2013 20:16	91503
Nickel	NELAP	0.45	0.91		10.9	mg/Kg-dry	1	09/03/2013 20:16	91503
Potassium	NELAP	4.55	9.09		1830	mg/Kg-dry	1	09/03/2013 20:16	91503
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/03/2013 20:16	91503
Sodium	NELAP	2.27	4.55		153	mg/Kg-dry	1	09/03/2013 20:16	91503



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-003

Client Sample ID: 1467V-11-B05-2

Matrix: SOLID

Collection Date: 08/28/2013 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/03/2013 20:16	91503
Vanadium	NELAP	0.45	0.91		14.4	mg/Kg-dry	1	09/03/2013 20:16	91503
Zinc	NELAP	0.45	0.91		21.9	mg/Kg-dry	1	09/03/2013 20:16	91503
<i>Allowable Marginal Exceedance of Ca in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/03/2013 11:03	91510
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.007	mg/Kg-dry	1	08/30/2013 9:59	91488
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.151	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
1,2-Dichlorobenzene	NELAP	0.181	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
1,3-Dichlorobenzene	NELAP	0.191	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
1,4-Dichlorobenzene	NELAP	0.181	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4,5-Trichlorophenol	NELAP	0.108	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4,6-Trichlorophenol	NELAP	0.143	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4-Dichlorophenol	NELAP	0.138	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4-Dimethylphenol	NELAP	0.145	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4-Dinitrophenol	NELAP	0.122	1.14		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,4-Dinitrotoluene	NELAP	0.118	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2,6-Dinitrotoluene	NELAP	0.123	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2-Chloronaphthalene	NELAP	0.137	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2-Chlorophenol	NELAP	0.145	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2-Methylnaphthalene	NELAP	0.136	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2-Nitroaniline	NELAP	0.104	1.14		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
2-Nitrophenol	NELAP	0.128	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
3,3'-Dichlorobenzidine	NELAP	0.228	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
3-Nitroaniline	NELAP	0.093	1.14		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4,6-Dinitro-2-methylphenol	NELAP	0.123	1.14		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Bromophenyl phenyl ether	NELAP	0.105	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Chloro-3-methylphenol	NELAP	0.125	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Chloroaniline	NELAP	0.138	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Chlorophenyl phenyl ether	NELAP	0.113	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Nitroaniline	NELAP	0.104	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
4-Nitrophenol	NELAP	0.112	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Bis(2-chloroethoxy)methane	NELAP	0.133	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Bis(2-chloroethyl)ether	NELAP	0.162	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Bis(2-chloroisopropyl)ether	NELAP	0.13	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Bis(2-ethylhexyl)phthalate	NELAP	0.133	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Butyl benzyl phthalate	NELAP	0.115	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-003

Client Sample ID: 1467V-11-B05-2

Matrix: SOLID

Collection Date: 08/28/2013 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.139	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Dibenzofuran	NELAP	0.143	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Diethyl phthalate	NELAP	0.109	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Dimethyl phthalate	NELAP	0.104	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Di-n-butyl phthalate	NELAP	0.117	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Di-n-octyl phthalate	NELAP	0.118	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Hexachlorobenzene	NELAP	0.112	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Hexachlorobutadiene	NELAP	0.177	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Hexachlorocyclopentadiene	NELAP	0.116	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Hexachloroethane	NELAP	0.19	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Isophorone	NELAP	0.134	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
m,p-Cresol	NELAP	0.143	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Nitrobenzene	NELAP	0.142	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
N-Nitroso-di-n-propylamine	NELAP	0.125	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
N-Nitrosodiphenylamine	NELAP	0.105	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
o-Cresol	NELAP	0.134	0.569		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Pentachlorophenol	NELAP	0.752	2.28		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Phenol	NELAP	0.132	0.399		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/02/2013 9:01	91529
Surr: 2,4,6-Tribromophenol		0	32.7-130		59.5	%REC	1	09/02/2013 9:01	91529
Surr: 2-Fluorobiphenyl		0	34.1-116		49	%REC	1	09/02/2013 9:01	91529
Surr: 2-Fluorophenol		0	30.5-99		57.7	%REC	1	09/02/2013 9:01	91529
Surr: Nitrobenzene-d5		0	34.1-101		67.2	%REC	1	09/02/2013 9:01	91529
Surr: Phenol-d5		0	34.9-110		60.8	%REC	1	09/02/2013 9:01	91529
Surr: p-Terphenyl-d14		0	41.7-124		61.8	%REC	1	09/02/2013 9:01	91529

Allowable Marginal Exceedance of Pentachlorophenol in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
2-Butanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
2-Hexanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
4-Methyl-2-pentanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Acetone	NELAP	0.008	0.04	J	0.035	mg/Kg-dry	1	08/30/2013 19:32	91559
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	08/30/2013 19:32	91559



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13081496

Client Project: IDOT2013-018

Report Date: 11-Sep-13

Lab ID: 13081496-003

Client Sample ID: 1467V-11-B05-2

Matrix: SOLID

Collection Date: 08/28/2013 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Toluene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	08/30/2013 19:32	91559
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Vinyl acetate	NELAP	0.016	0.04		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	08/30/2013 19:32	91559
Surr: 1,2-Dichloroethane-d4		0	72.2-131		121.4	%REC	1	08/30/2013 19:32	91559
Surr: 4-Bromofluorobenzene		0	82.1-116		96.7	%REC	1	08/30/2013 19:32	91559
Surr: Dibromofluoromethane		0	77.7-120		103.8	%REC	1	08/30/2013 19:32	91559
Surr: Toluene-d8		0	86-116		102.7	%REC	1	08/30/2013 19:32	91559

Allowable Marginal Exceedance of Acetone, 2-butanone, and 2-hexanone in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Pingree Shoe Kane Co</u> Project No.: <u>IDOT 2013-018</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sample Temp: <u>44</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13081449</u> Matrix Key: W: Water S: Soil SL: Sludge L: Leachate DW: Drinking Water OL: Oil O: Other													
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
ANALYSES																
Lab ID <u>13081446</u> 1467V-11-B01-1 1467V-11-B02-1 1467V-11-B02-2 1467V-11-B03-1 1467V-11-B03-2 1467V-11-B04-1 1467V-11-B04-2 1467V-11-B04-3 1467V-11-B05-1 1467V-11-B05-2	Sample ID 1467V-11-B01-1 1467V-11-B02-1 1467V-11-B02-2 1467V-11-B03-1 1467V-11-B03-2 1467V-11-B04-1 1467V-11-B04-2 1467V-11-B04-3 1467V-11-B05-1 1467V-11-B05-2	Sample Date <u>8-28-13</u> 8-28-13 8-28-13 8-28-13 8-28-13 8-28-13 8-28-13 8-28-13 8-28-13 8-28-13	Sample Time <u>11:00AM</u> 11:00AM 1:40PM 2:45PM 2:50PM 2:55PM 2:55PM 2:55PM 2:55PM 2:55PM 2:55PM	Matrix <u>S</u> S S S S S S S S S	VOCs <input checked="" type="checkbox"/>	SVOCs <input checked="" type="checkbox"/>	BETX & MTBE <input type="checkbox"/>	PNAs <input type="checkbox"/>	Pesticides <input type="checkbox"/>	PCBs <input type="checkbox"/>	* Total Metals <input checked="" type="checkbox"/>	SPLP/** TCLP Metals <input checked="" type="checkbox"/>	pH <input checked="" type="checkbox"/>	% Solids <input checked="" type="checkbox"/>	Waste Characterization <input type="checkbox"/>	Comments <u>0-7</u> <u>NO SAMPLE REFUSED</u> 0-7.5 <u>NO</u> 0-7.5 <u>NO</u> 0-7.5 <u>SAMPLES</u> <u>0-7.5</u> <u>7.5-15</u>
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-28-13 3:25PM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8-28-13 3:25PM</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-28-13 6:30PM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8-28-13 6:30PM</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/29/13 8:40</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8/29/13 21:30</u>										

September 13, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13090002

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 8/31/2013 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-001

Client Sample ID: 1467V-11-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		8.9	%	1	09/03/2013 12:38	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		91.1	%	1	09/03/2013 12:38	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.31		1	09/04/2013 10:34	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0251	mg/L	1	09/06/2013 18:58	91695
Beryllium	NELAP	0.0003	0.001	J	0.0009	mg/L	1	09/06/2013 18:58	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 18:58	91695
Cadmium	NELAP	0.0003	0.002	J	0.0016	mg/L	1	09/06/2013 18:58	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 18:58	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 18:58	91695
Iron	NELAP	0.007	0.02		0.32	mg/L	1	09/06/2013 18:58	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 18:58	91695
Manganese	NELAP	0.0016	0.005	J	0.0042	mg/L	1	09/06/2013 18:58	91695
Nickel	NELAP	0.0033	0.01	J	0.0041	mg/L	1	09/06/2013 18:58	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 18:58	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 18:58	91695
Zinc	NELAP	0.0021	0.01	J	0.0065	mg/L	1	09/06/2013 18:58	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 22:31	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:09	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:04	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		4080	mg/Kg-dry	1	09/06/2013 0:44	91586
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 1:11	91640
Arsenic	NELAP	1.2	2.4		5.93	mg/Kg-dry	1	09/06/2013 0:44	91586
Barium	NELAP	0.24	0.48		15.6	mg/Kg-dry	1	09/06/2013 0:44	91586
Beryllium	NELAP	0.05	0.1		0.23	mg/Kg-dry	1	09/06/2013 0:44	91586
Boron	NELAP	0.96	1.92		5.9	mg/Kg-dry	1	09/06/2013 0:44	91586
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 0:44	91586
Calcium	NELAP	2.4	4.81		70000	mg/Kg-dry	1	09/06/2013 0:44	91586
Chromium	NELAP	0.48	0.96		9.34	mg/Kg-dry	1	09/06/2013 0:44	91586
Cobalt	NELAP	0.48	0.96		4.08	mg/Kg-dry	1	09/06/2013 0:44	91586
Copper	NELAP	0.48	0.96		8.39	mg/Kg-dry	1	09/06/2013 0:44	91586
Iron	NELAP	0.96	1.92		9600	mg/Kg-dry	1	09/06/2013 0:44	91586
Lead	NELAP	1.92	3.85		3.95	mg/Kg-dry	1	09/06/2013 0:44	91586
Magnesium	NELAP	0.48	0.96		30100	mg/Kg-dry	1	09/06/2013 0:44	91586
Manganese	NELAP	0.24	0.48		224	mg/Kg-dry	1	09/06/2013 0:44	91586
Nickel	NELAP	0.48	0.96		10.9	mg/Kg-dry	1	09/06/2013 0:44	91586
Potassium	NELAP	4.81	9.62		1100	mg/Kg-dry	1	09/06/2013 0:44	91586
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/06/2013 0:44	91586
Sodium	NELAP	2.4	4.81		95.6	mg/Kg-dry	1	09/06/2013 0:44	91586
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/06/2013 0:44	91586
Vanadium	NELAP	0.48	0.96		12	mg/Kg-dry	1	09/06/2013 0:44	91586
Zinc	NELAP	0.48	0.96		15.8	mg/Kg-dry	1	09/06/2013 0:44	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-001

Client Sample ID: 1467V-11-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/09/2013 17:16	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.005	mg/Kg-dry	1	09/05/2013 11:59	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.145	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
1,2-Dichlorobenzene	NELAP	0.174	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
1,3-Dichlorobenzene	NELAP	0.183	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
1,4-Dichlorobenzene	NELAP	0.174	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4,5-Trichlorophenol	NELAP	0.104	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4,6-Trichlorophenol	NELAP	0.138	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4-Dichlorophenol	NELAP	0.132	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4-Dimethylphenol	NELAP	0.139	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4-Dinitrophenol	NELAP	0.117	1.09		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,4-Dinitrotoluene	NELAP	0.114	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2,6-Dinitrotoluene	NELAP	0.118	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2-Chloronaphthalene	NELAP	0.131	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2-Chlorophenol	NELAP	0.139	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2-Methylnaphthalene	NELAP	0.13	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2-Nitroaniline	NELAP	0.099	1.09		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
2-Nitrophenol	NELAP	0.122	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
3,3'-Dichlorobenzidine	NELAP	0.218	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
3-Nitroaniline	NELAP	0.09	1.09		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4,6-Dinitro-2-methylphenol	NELAP	0.118	1.09		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Bromophenyl phenyl ether	NELAP	0.1	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Chloro-3-methylphenol	NELAP	0.12	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Chloroaniline	NELAP	0.132	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Chlorophenyl phenyl ether	NELAP	0.108	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Nitroaniline	NELAP	0.099	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
4-Nitrophenol	NELAP	0.107	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Bis(2-chloroethoxy)methane	NELAP	0.128	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Bis(2-chloroethyl)ether	NELAP	0.155	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.128	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Butyl benzyl phthalate	NELAP	0.11	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Carbazole		0.133	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Dibenzofuran	NELAP	0.138	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Diethyl phthalate	NELAP	0.105	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-001

Client Sample ID: 1467V-11-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.099	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Di-n-butyl phthalate	NELAP	0.112	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Di-n-octyl phthalate	NELAP	0.114	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Hexachlorobenzene	NELAP	0.107	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Hexachlorobutadiene	NELAP	0.169	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Hexachlorocyclopentadiene	NELAP	0.111	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Hexachloroethane	NELAP	0.182	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Isophorone	NELAP	0.129	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
m,p-Cresol	NELAP	0.138	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Nitrobenzene	NELAP	0.137	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
N-Nitroso-di-n-propylamine	NELAP	0.12	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
N-Nitrosodiphenylamine	NELAP	0.1	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
o-Cresol	NELAP	0.129	0.546		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Pentachlorophenol	NELAP	0.721	2.18		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Phenol	NELAP	0.127	0.382		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 15:44	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		73.5	%REC	1	09/04/2013 15:44	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		65.8	%REC	1	09/04/2013 15:44	91570
Surr: 2-Fluorophenol		0	30.5-99		70.2	%REC	1	09/04/2013 15:44	91570
Surr: Nitrobenzene-d5		0	34.1-101		66.7	%REC	1	09/04/2013 15:44	91570
Surr: Phenol-d5		0	34.9-110		75.9	%REC	1	09/04/2013 15:44	91570
Surr: p-Terphenyl-d14		0	41.7-124		83.5	%REC	1	09/04/2013 15:44	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,1,2,2-Tetrachloroethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,1,2-Trichloroethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,1-Dichloroethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,1-Dichloroethene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,2-Dichloroethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,2-Dichloropropane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
1,3-Dichloropropene, Total		0.0011	0.004	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
2-Butanone	NELAP	0.0112	0.056	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
2-Hexanone	NELAP	0.0112	0.056	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
4-Methyl-2-pentanone	NELAP	0.0112	0.056	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Acetone	NELAP	0.0112	0.056	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Benzene	NELAP	0.0006	0.001	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Bromodichloromethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Bromoform	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Bromomethane	NELAP	0.0022	0.011	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Carbon disulfide	NELAP	0.0034	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Carbon tetrachloride	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-001

Client Sample ID: 1467V-11-B04-1

Matrix: SOLID

Collection Date: 08/28/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Chloroethane	NELAP	0.0022	0.011	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Chloroform	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Chloromethane	NELAP	0.0022	0.011	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
cis-1,2-Dichloroethene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
cis-1,3-Dichloropropene	NELAP	0.0011	0.004	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Dibromochloromethane	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Ethylbenzene	NELAP	0.0011	0.006	JH	0.002	mg/Kg-dry	1	09/11/2013 20:08	91859
m,p-Xylenes	NELAP	0.0011	0.006	JH	0.002	mg/Kg-dry	1	09/11/2013 20:08	91859
Methyl tert-butyl ether	NELAP	0.0006	0.002	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Methylene chloride	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
o-Xylene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Styrene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Tetrachloroethene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Toluene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
trans-1,2-Dichloroethene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
trans-1,3-Dichloropropene	NELAP	0.0011	0.004	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Trichloroethene	NELAP	0.0011	0.006	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Vinyl acetate	NELAP	0.0225	0.056	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Vinyl chloride	NELAP	0.0006	0.002	H	ND	mg/Kg-dry	1	09/11/2013 20:08	91859
Xylenes, Total	NELAP	0.0011	0.006	JH	0.002	mg/Kg-dry	1	09/11/2013 20:08	91859
Surr: 1,2-Dichloroethane-d4		0	72.2-131	H	97.4	%REC	1	09/11/2013 20:08	91859
Surr: 4-Bromofluorobenzene		0	82.1-116	SH	118.4	%REC	1	09/11/2013 20:08	91859
Surr: Dibromofluoromethane		0	77.7-120	H	102.7	%REC	1	09/11/2013 20:08	91859
Surr: Toluene-d8		0	86-116	H	107.6	%REC	1	09/11/2013 20:08	91859

Surrogate recovery is outside QC limits due to matrix interference.

Sample analysis did not meet hold time requirements.



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-002

Client Sample ID: 1467V-11-B04-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 14:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.4	%	1	09/03/2013 12:38	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.6	%	1	09/03/2013 12:38	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.13		1	09/04/2013 10:36	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0251	mg/L	1	09/06/2013 19:01	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:01	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:01	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:01	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 19:01	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:01	91695
Iron	NELAP	0.007	0.02		0.376	mg/L	1	09/06/2013 19:01	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:01	91695
Manganese	NELAP	0.0016	0.005		0.0095	mg/L	1	09/06/2013 19:01	91695
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 19:01	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:01	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:01	91695
Zinc	NELAP	0.0021	0.01	J	0.0038	mg/L	1	09/06/2013 19:01	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 22:35	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:12	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:06	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63	S	4070	mg/Kg-dry	1	09/06/2013 0:50	91586
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/06/2013 1:15	91640
Arsenic	NELAP	1.16	2.31		2.41	mg/Kg-dry	1	09/06/2013 14:42	91586
Barium	NELAP	0.23	0.46		20.7	mg/Kg-dry	1	09/06/2013 0:50	91586
Beryllium	NELAP	0.05	0.09		0.29	mg/Kg-dry	1	09/06/2013 0:50	91586
Boron	NELAP	0.93	1.85		7.33	mg/Kg-dry	1	09/06/2013 0:50	91586
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 0:50	91586
Calcium	NELAP	2.31	4.63	S	84000	mg/Kg-dry	1	09/06/2013 0:50	91586
Chromium	NELAP	0.46	0.93		7.72	mg/Kg-dry	1	09/06/2013 0:50	91586
Cobalt	NELAP	0.46	0.93		3.1	mg/Kg-dry	1	09/06/2013 0:50	91586
Copper	NELAP	0.46	0.93		7.14	mg/Kg-dry	1	09/06/2013 0:50	91586
Iron	NELAP	0.93	1.85	S	9680	mg/Kg-dry	1	09/06/2013 0:50	91586
Lead	NELAP	1.85	3.7	J	3.61	mg/Kg-dry	1	09/06/2013 0:50	91586
Magnesium	NELAP	0.46	0.93	S	39400	mg/Kg-dry	1	09/06/2013 0:50	91586
Manganese	NELAP	0.23	0.46		282	mg/Kg-dry	1	09/06/2013 0:50	91586
Nickel	NELAP	0.46	0.93		8.19	mg/Kg-dry	1	09/06/2013 0:50	91586
Potassium	NELAP	4.63	9.26	S	1320	mg/Kg-dry	1	09/06/2013 0:50	91586
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 0:50	91586
Sodium	NELAP	2.31	4.63		118	mg/Kg-dry	1	09/06/2013 0:50	91586
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 0:50	91586
Vanadium	NELAP	0.46	0.93		12.8	mg/Kg-dry	1	09/06/2013 0:50	91586
Zinc	NELAP	0.46	0.93		17.3	mg/Kg-dry	1	09/06/2013 0:50	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-002

Client Sample ID: 1467V-11-B04-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 14:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>MS QC limits for Al, Ca, Fe, Mg, and K are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6	S	< 0.6	mg/Kg-dry	1	09/10/2013 12:39	91589
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.007	mg/Kg-dry	1	09/05/2013 12:06	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.146	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
1,2-Dichlorobenzene	NELAP	0.175	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
1,3-Dichlorobenzene	NELAP	0.185	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
1,4-Dichlorobenzene	NELAP	0.175	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4,5-Trichlorophenol	NELAP	0.104	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4,6-Trichlorophenol	NELAP	0.138	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4-Dichlorophenol	NELAP	0.133	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4-Dimethylphenol	NELAP	0.14	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,4-Dinitrotoluene	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2,6-Dinitrotoluene	NELAP	0.119	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2-Chloronaphthalene	NELAP	0.132	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2-Chlorophenol	NELAP	0.14	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2-Methylnaphthalene	NELAP	0.131	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
2-Nitrophenol	NELAP	0.123	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
3,3'-Dichlorobenzidine	NELAP	0.22	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Bromophenyl phenyl ether	NELAP	0.101	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Chloro-3-methylphenol	NELAP	0.121	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Chloroaniline	NELAP	0.133	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Chlorophenyl phenyl ether	NELAP	0.109	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Nitroaniline	NELAP	0.1	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
4-Nitrophenol	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Bis(2-chloroethoxy)methane	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Bis(2-chloroethyl)ether	NELAP	0.156	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Butyl benzyl phthalate	NELAP	0.111	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Carbazole		0.134	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-002

Client Sample ID: 1467V-11-B04-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 14:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Dibenzofuran	NELAP	0.138	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Diethyl phthalate	NELAP	0.105	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Dimethyl phthalate	NELAP	0.1	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Di-n-butyl phthalate	NELAP	0.113	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Di-n-octyl phthalate	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Hexachlorobenzene	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Hexachlorobutadiene	NELAP	0.17	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Hexachlorocyclopentadiene	NELAP	0.112	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Hexachloroethane	NELAP	0.184	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Isophorone	NELAP	0.13	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
m,p-Cresol	NELAP	0.138	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Nitrobenzene	NELAP	0.137	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
N-Nitroso-di-n-propylamine	NELAP	0.121	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
N-Nitrosodiphenylamine	NELAP	0.101	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
o-Cresol	NELAP	0.13	0.549		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Pentachlorophenol	NELAP	0.725	2.2		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Phenol	NELAP	0.127	0.385		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/04/2013 16:17	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		73	%REC	1	09/04/2013 16:17	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		68.2	%REC	1	09/04/2013 16:17	91570
Surr: 2-Fluorophenol		0	30.5-99		67	%REC	1	09/04/2013 16:17	91570
Surr: Nitrobenzene-d5		0	34.1-101		70.4	%REC	1	09/04/2013 16:17	91570
Surr: Phenol-d5		0	34.9-110		70.9	%REC	1	09/04/2013 16:17	91570
Surr: p-Terphenyl-d14		0	41.7-124		89.6	%REC	1	09/04/2013 16:17	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
2-Butanone	NELAP	0.0074	0.037	J	0.01	mg/Kg-dry	1	09/10/2013 18:02	91826
2-Hexanone	NELAP	0.0074	0.037		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
4-Methyl-2-pentanone	NELAP	0.0074	0.037		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Acetone	NELAP	0.0074	0.037		0.04	mg/Kg-dry	1	09/10/2013 18:02	91826
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/10/2013 18:02	91826
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-002

Client Sample ID: 1467V-11-B04-1 DUP

Matrix: SOLID

Collection Date: 08/28/2013 14:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
m,p-Xylenes	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 18:02	91826
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Toluene	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 18:02	91826
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Vinyl acetate	NELAP	0.0148	0.037		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 18:02	91826
Xylenes, Total	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 18:02	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.6	%REC	1	09/10/2013 18:02	91826
Surr: 4-Bromofluorobenzene		0	82.1-116	S	131	%REC	1	09/10/2013 18:02	91826
Surr: Dibromofluoromethane		0	77.7-120		103.3	%REC	1	09/10/2013 18:02	91826
Surr: Toluene-d8		0	86-116		112.3	%REC	1	09/10/2013 18:02	91826

Surrogate recovery is outside QC limits due to matrix interference.

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-003

Client Sample ID: 1467V-11-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 14:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11	%	1	09/03/2013 12:40	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89	%	1	09/03/2013 12:40	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.21		1	09/04/2013 10:38	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0279	mg/L	1	09/06/2013 19:05	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:05	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:05	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:05	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 19:05	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:05	91695
Iron	NELAP	0.007	0.02		0.636	mg/L	1	09/06/2013 19:05	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:05	91695
Manganese	NELAP	0.0016	0.005		0.0065	mg/L	1	09/06/2013 19:05	91695
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 19:05	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:05	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:05	91695
Zinc	NELAP	0.0021	0.01	J	0.0044	mg/L	1	09/06/2013 19:05	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 22:54	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:16	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:08	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		5000	mg/Kg-dry	1	09/06/2013 1:08	91586
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/06/2013 1:26	91640
Arsenic	NELAP	1.25	2.5		3.65	mg/Kg-dry	1	09/06/2013 1:08	91586
Barium	NELAP	0.25	0.5		23.2	mg/Kg-dry	1	09/06/2013 1:08	91586
Beryllium	NELAP	0.05	0.1		0.34	mg/Kg-dry	1	09/06/2013 1:08	91586
Boron	NELAP	1	2		8.08	mg/Kg-dry	1	09/06/2013 1:08	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 1:08	91586
Calcium	NELAP	2.5	5		74500	mg/Kg-dry	1	09/06/2013 1:08	91586
Chromium	NELAP	0.5	1		9.52	mg/Kg-dry	1	09/06/2013 1:08	91586
Cobalt	NELAP	0.5	1		3.97	mg/Kg-dry	1	09/06/2013 1:08	91586
Copper	NELAP	0.5	1		16.3	mg/Kg-dry	1	09/06/2013 1:08	91586
Iron	NELAP	1	2		10500	mg/Kg-dry	1	09/06/2013 1:08	91586
Lead	NELAP	2	4		5.16	mg/Kg-dry	1	09/06/2013 1:08	91586
Magnesium	NELAP	0.5	1		34500	mg/Kg-dry	1	09/06/2013 1:08	91586
Manganese	NELAP	0.25	0.5		257	mg/Kg-dry	1	09/06/2013 1:08	91586
Nickel	NELAP	0.5	1		9.91	mg/Kg-dry	1	09/06/2013 1:08	91586
Potassium	NELAP	5	10		1480	mg/Kg-dry	1	09/06/2013 1:08	91586
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/06/2013 1:08	91586
Sodium	NELAP	2.5	5		150	mg/Kg-dry	1	09/06/2013 1:08	91586
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/06/2013 1:08	91586
Vanadium	NELAP	0.5	1		14.8	mg/Kg-dry	1	09/06/2013 1:08	91586
Zinc	NELAP	0.5	1		19.3	mg/Kg-dry	1	09/06/2013 1:08	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-003

Client Sample ID: 1467V-11-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 14:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/10/2013 12:59	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.007	mg/Kg-dry	1	09/05/2013 12:09	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
1,2-Dichlorobenzene	NELAP	0.177	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
1,3-Dichlorobenzene	NELAP	0.187	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
1,4-Dichlorobenzene	NELAP	0.177	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4,5-Trichlorophenol	NELAP	0.106	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4,6-Trichlorophenol	NELAP	0.14	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4-Dichlorophenol	NELAP	0.135	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4-Dimethylphenol	NELAP	0.142	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4-Dinitrophenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,4-Dinitrotoluene	NELAP	0.116	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2,6-Dinitrotoluene	NELAP	0.12	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2-Chloronaphthalene	NELAP	0.134	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2-Chlorophenol	NELAP	0.142	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2-Methylnaphthalene	NELAP	0.133	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
2-Nitrophenol	NELAP	0.125	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
3,3'-Dichlorobenzidine	NELAP	0.223	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.11		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Bromophenyl phenyl ether	NELAP	0.103	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Chloro-3-methylphenol	NELAP	0.123	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Chloroaniline	NELAP	0.135	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Chlorophenyl phenyl ether	NELAP	0.11	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Nitroaniline	NELAP	0.101	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
4-Nitrophenol	NELAP	0.109	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Bis(2-chloroethoxy)methane	NELAP	0.13	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Bis(2-chloroethyl)ether	NELAP	0.158	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Butyl benzyl phthalate	NELAP	0.113	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Carbazole		0.136	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Dibenzofuran	NELAP	0.14	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Diethyl phthalate	NELAP	0.107	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-003

Client Sample ID: 1467V-11-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 14:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.101	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Di-n-butyl phthalate	NELAP	0.115	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Di-n-octyl phthalate	NELAP	0.116	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Hexachlorobenzene	NELAP	0.109	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Hexachlorobutadiene	NELAP	0.173	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Hexachlorocyclopentadiene	NELAP	0.114	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Hexachloroethane	NELAP	0.186	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Isophorone	NELAP	0.132	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
m,p-Cresol	NELAP	0.14	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Nitrobenzene	NELAP	0.139	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
N-Nitroso-di-n-propylamine	NELAP	0.123	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
N-Nitrosodiphenylamine	NELAP	0.103	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
o-Cresol	NELAP	0.132	0.557		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Pentachlorophenol	NELAP	0.736	2.23		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Phenol	NELAP	0.129	0.39		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 16:50	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.1	%REC	1	09/04/2013 16:50	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		68.9	%REC	1	09/04/2013 16:50	91570
Surr: 2-Fluorophenol		0	30.5-99		67.7	%REC	1	09/04/2013 16:50	91570
Surr: Nitrobenzene-d5		0	34.1-101		73.1	%REC	1	09/04/2013 16:50	91570
Surr: Phenol-d5		0	34.9-110		71.1	%REC	1	09/04/2013 16:50	91570
Surr: p-Terphenyl-d14		0	41.7-124		85.2	%REC	1	09/04/2013 16:50	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
2-Butanone	NELAP	0.0103	0.051		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
2-Hexanone	NELAP	0.0103	0.051		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
4-Methyl-2-pentanone	NELAP	0.0103	0.051		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Acetone	NELAP	0.0103	0.051	J	0.042	mg/Kg-dry	1	09/10/2013 18:30	91826
Benzene	NELAP	0.0005	0.001		0.002	mg/Kg-dry	1	09/10/2013 18:30	91826
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Bromomethane	NELAP	0.0021	0.01		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Carbon disulfide	NELAP	0.0031	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-003

Client Sample ID: 1467V-11-B04-2

Matrix: SOLID

Collection Date: 08/28/2013 14:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Chloroethane	NELAP	0.0021	0.01		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Chloromethane	NELAP	0.0021	0.01		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
m,p-Xylenes	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/10/2013 18:30	91826
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Toluene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/10/2013 18:30	91826
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Vinyl acetate	NELAP	0.0205	0.051		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 18:30	91826
Xylenes, Total	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/10/2013 18:30	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.2	%REC	1	09/10/2013 18:30	91826
Surr: 4-Bromofluorobenzene		0	82.1-116	S	117.3	%REC	1	09/10/2013 18:30	91826
Surr: Dibromofluoromethane		0	77.7-120		103.1	%REC	1	09/10/2013 18:30	91826
Surr: Toluene-d8		0	86-116		106.6	%REC	1	09/10/2013 18:30	91826

Surrogate recovery is outside QC limits due to matrix interference.



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-004

Client Sample ID: 1467V-11-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.9	%	1	09/03/2013 12:40	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.1	%	1	09/03/2013 12:40	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.15		1	09/04/2013 10:41	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0385	mg/L	1	09/06/2013 19:09	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:09	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:09	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:09	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 19:09	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:09	91695
Iron	NELAP	0.007	0.02		0.668	mg/L	1	09/06/2013 19:09	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:09	91695
Manganese	NELAP	0.0016	0.005		0.0112	mg/L	1	09/06/2013 19:09	91695
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 19:09	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:09	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:09	91695
Zinc	NELAP	0.0021	0.01	J	0.0047	mg/L	1	09/06/2013 19:09	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 22:57	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:19	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:11	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		9600	mg/Kg-dry	1	09/06/2013 1:14	91586
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 1:30	91640
Arsenic	NELAP	1.18	2.36		3.11	mg/Kg-dry	1	09/06/2013 1:14	91586
Barium	NELAP	0.24	0.47		46.2	mg/Kg-dry	1	09/06/2013 1:14	91586
Beryllium	NELAP	0.05	0.09		0.58	mg/Kg-dry	1	09/06/2013 1:14	91586
Boron	NELAP	0.94	1.89		12.1	mg/Kg-dry	1	09/06/2013 1:14	91586
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 1:14	91586
Calcium	NELAP	2.36	4.72		98200	mg/Kg-dry	1	09/06/2013 1:14	91586
Chromium	NELAP	0.47	0.94	X	17.4	mg/Kg-dry	1	09/06/2013 1:14	91586
Cobalt	NELAP	0.47	0.94		6.69	mg/Kg-dry	1	09/06/2013 1:14	91586
Copper	NELAP	0.47	0.94		16	mg/Kg-dry	1	09/06/2013 1:14	91586
Iron	NELAP	0.94	1.89	X	16300	mg/Kg-dry	1	09/06/2013 1:14	91586
Lead	NELAP	1.89	3.77		8.33	mg/Kg-dry	1	09/06/2013 1:14	91586
Magnesium	NELAP	0.47	0.94		47100	mg/Kg-dry	1	09/06/2013 1:14	91586
Manganese	NELAP	0.24	0.47		428	mg/Kg-dry	1	09/06/2013 1:14	91586
Nickel	NELAP	0.47	0.94		18	mg/Kg-dry	1	09/06/2013 1:14	91586
Potassium	NELAP	4.72	9.43		2540	mg/Kg-dry	1	09/06/2013 1:14	91586
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/06/2013 1:14	91586
Sodium	NELAP	2.36	4.72		247	mg/Kg-dry	1	09/06/2013 1:14	91586
Thallium	NELAP	2.36	2.45	J	2.37	mg/Kg-dry	1	09/06/2013 1:14	91586
Vanadium	NELAP	0.47	0.94		23	mg/Kg-dry	1	09/06/2013 1:14	91586
Zinc	NELAP	0.47	0.94		41.1	mg/Kg-dry	1	09/06/2013 1:14	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-004

Client Sample ID: 1467V-11-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/10/2013 13:03	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012	J	0.011	mg/Kg-dry	1	09/05/2013 12:11	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.159	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
1,2-Dichlorobenzene	NELAP	0.19	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
1,3-Dichlorobenzene	NELAP	0.201	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
1,4-Dichlorobenzene	NELAP	0.19	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4,5-Trichlorophenol	NELAP	0.114	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4,6-Trichlorophenol	NELAP	0.151	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4-Dichlorophenol	NELAP	0.145	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4-Dimethylphenol	NELAP	0.152	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4-Dinitrophenol	NELAP	0.128	1.2		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,4-Dinitrotoluene	NELAP	0.125	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2,6-Dinitrotoluene	NELAP	0.129	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2-Chloronaphthalene	NELAP	0.144	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2-Chlorophenol	NELAP	0.152	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2-Methylnaphthalene	NELAP	0.142	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2-Nitroaniline	NELAP	0.109	1.2		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
2-Nitrophenol	NELAP	0.134	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
3,3'-Dichlorobenzidine	NELAP	0.239	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
3-Nitroaniline	NELAP	0.098	1.2		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4,6-Dinitro-2-methylphenol	NELAP	0.129	1.2		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Bromophenyl phenyl ether	NELAP	0.11	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Chloro-3-methylphenol	NELAP	0.132	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Chloroaniline	NELAP	0.145	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Chlorophenyl phenyl ether	NELAP	0.119	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Nitroaniline	NELAP	0.109	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
4-Nitrophenol	NELAP	0.117	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Bis(2-chloroethoxy)methane	NELAP	0.14	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Bis(2-chloroethyl)ether	NELAP	0.17	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Bis(2-chloroisopropyl)ether	NELAP	0.136	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.14	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Butyl benzyl phthalate	NELAP	0.121	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Carbazole		0.146	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Dibenzofuran	NELAP	0.151	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Diethyl phthalate	NELAP	0.115	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-004

Client Sample ID: 1467V-11-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.109	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Di-n-butyl phthalate	NELAP	0.123	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Di-n-octyl phthalate	NELAP	0.125	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Hexachlorobenzene	NELAP	0.117	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Hexachlorobutadiene	NELAP	0.186	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Hexachlorocyclopentadiene	NELAP	0.122	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Hexachloroethane	NELAP	0.2	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Isophorone	NELAP	0.141	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
m,p-Cresol	NELAP	0.151	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Nitrobenzene	NELAP	0.15	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
N-Nitroso-di-n-propylamine	NELAP	0.132	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
N-Nitrosodiphenylamine	NELAP	0.11	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
o-Cresol	NELAP	0.141	0.599		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Pentachlorophenol	NELAP	0.79	2.39		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Phenol	NELAP	0.139	0.419		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 17:22	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		82.5	%REC	1	09/04/2013 17:22	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		71.3	%REC	1	09/04/2013 17:22	91570
Surr: 2-Fluorophenol		0	30.5-99		73.3	%REC	1	09/04/2013 17:22	91570
Surr: Nitrobenzene-d5		0	34.1-101		76	%REC	1	09/04/2013 17:22	91570
Surr: Phenol-d5		0	34.9-110		80	%REC	1	09/04/2013 17:22	91570
Surr: p-Terphenyl-d14		0	41.7-124		91.8	%REC	1	09/04/2013 17:22	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
2-Butanone	NELAP	0.0084	0.042		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
2-Hexanone	NELAP	0.0084	0.042		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
4-Methyl-2-pentanone	NELAP	0.0084	0.042		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Acetone	NELAP	0.0084	0.042		0.052	mg/Kg-dry	1	09/10/2013 18:57	91826
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/10/2013 18:57	91826
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Bromomethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-004

Client Sample ID: 1467V-11-B03-1

Matrix: SOLID

Collection Date: 08/28/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Chloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Chloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 18:57	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Toluene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 18:57	91826
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Vinyl acetate	NELAP	0.0167	0.042		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 18:57	91826
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 18:57	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.9	%REC	1	09/10/2013 18:57	91826
Surr: 4-Bromofluorobenzene		0	82.1-116	S	130.1	%REC	1	09/10/2013 18:57	91826
Surr: Dibromofluoromethane		0	77.7-120		102.4	%REC	1	09/10/2013 18:57	91826
Surr: Toluene-d8		0	86-116		115.5	%REC	1	09/10/2013 18:57	91826

Surrogate recovery is outside QC limits due to matrix interference.



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-005

Client Sample ID: 1467V-11-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.4	%	1	09/03/2013 12:41	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.6	%	1	09/03/2013 12:41	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.36		1	09/04/2013 10:43	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0313	mg/L	1	09/06/2013 19:12	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:12	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:12	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:12	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 19:12	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:12	91695
Iron	NELAP	0.007	0.02		0.8	mg/L	1	09/06/2013 19:12	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:12	91695
Manganese	NELAP	0.0016	0.005		0.0079	mg/L	1	09/06/2013 19:12	91695
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 19:12	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:12	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:12	91695
Zinc	NELAP	0.0021	0.01	J	0.005	mg/L	1	09/06/2013 19:12	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 23:01	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:23	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:13	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		5150	mg/Kg-dry	1	09/06/2013 1:20	91586
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 1:33	91640
Arsenic	NELAP	1.14	2.27	J	1.91	mg/Kg-dry	1	09/06/2013 1:20	91586
Barium	NELAP	0.23	0.45		24.4	mg/Kg-dry	1	09/06/2013 1:20	91586
Beryllium	NELAP	0.05	0.09		0.33	mg/Kg-dry	1	09/06/2013 1:20	91586
Boron	NELAP	0.91	1.82		7.19	mg/Kg-dry	1	09/06/2013 1:20	91586
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	09/06/2013 1:20	91586
Calcium	NELAP	2.27	4.55		74600	mg/Kg-dry	1	09/06/2013 1:20	91586
Chromium	NELAP	0.45	0.91		10.2	mg/Kg-dry	1	09/06/2013 1:20	91586
Cobalt	NELAP	0.45	0.91		3.85	mg/Kg-dry	1	09/06/2013 1:20	91586
Copper	NELAP	0.45	0.91		20.6	mg/Kg-dry	1	09/06/2013 1:20	91586
Iron	NELAP	0.91	1.82		9620	mg/Kg-dry	1	09/06/2013 1:20	91586
Lead	NELAP	1.82	3.64		5.48	mg/Kg-dry	1	09/06/2013 1:20	91586
Magnesium	NELAP	0.45	0.91		35400	mg/Kg-dry	1	09/06/2013 1:20	91586
Manganese	NELAP	0.23	0.45		270	mg/Kg-dry	1	09/06/2013 1:20	91586
Nickel	NELAP	0.45	0.91		10.2	mg/Kg-dry	1	09/06/2013 1:20	91586
Potassium	NELAP	4.55	9.09		1420	mg/Kg-dry	1	09/06/2013 1:20	91586
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/06/2013 1:20	91586
Sodium	NELAP	2.27	4.55		165	mg/Kg-dry	1	09/06/2013 1:20	91586
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/06/2013 1:20	91586
Vanadium	NELAP	0.45	0.91		16.2	mg/Kg-dry	1	09/06/2013 1:20	91586
Zinc	NELAP	0.45	0.91		29.2	mg/Kg-dry	1	09/06/2013 1:20	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-005

Client Sample ID: 1467V-11-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/10/2013 13:06	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012	J	0.008	mg/Kg-dry	1	09/05/2013 12:17	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.158	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
1,2-Dichlorobenzene	NELAP	0.189	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
1,3-Dichlorobenzene	NELAP	0.199	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
1,4-Dichlorobenzene	NELAP	0.189	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4,5-Trichlorophenol	NELAP	0.113	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4,6-Trichlorophenol	NELAP	0.149	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4-Dichlorophenol	NELAP	0.144	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4-Dimethylphenol	NELAP	0.151	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4-Dinitrophenol	NELAP	0.127	1.19		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,4-Dinitrotoluene	NELAP	0.123	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2,6-Dinitrotoluene	NELAP	0.128	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2-Chloronaphthalene	NELAP	0.142	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2-Chlorophenol	NELAP	0.151	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2-Methylnaphthalene	NELAP	0.141	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2-Nitroaniline	NELAP	0.108	1.19		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
2-Nitrophenol	NELAP	0.133	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
3,3'-Dichlorobenzidine	NELAP	0.237	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
3-Nitroaniline	NELAP	0.097	1.19		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4,6-Dinitro-2-methylphenol	NELAP	0.128	1.19		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Bromophenyl phenyl ether	NELAP	0.109	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Chloro-3-methylphenol	NELAP	0.13	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Chloroaniline	NELAP	0.144	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Chlorophenyl phenyl ether	NELAP	0.117	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Nitroaniline	NELAP	0.108	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
4-Nitrophenol	NELAP	0.116	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Acenaphthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Acenaphthylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Benzo(a)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Benzo(a)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Benzo(b)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Benzo(k)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Bis(2-chloroethoxy)methane	NELAP	0.139	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Bis(2-chloroethyl)ether	NELAP	0.168	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Bis(2-chloroisopropyl)ether	NELAP	0.135	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.139	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Butyl benzyl phthalate	NELAP	0.12	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Carbazole		0.145	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Chrysene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Dibenzofuran	NELAP	0.149	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Diethyl phthalate	NELAP	0.114	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-005

Client Sample ID: 1467V-11-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.108	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Di-n-butyl phthalate	NELAP	0.122	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Di-n-octyl phthalate	NELAP	0.123	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Fluorene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Hexachlorobenzene	NELAP	0.116	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Hexachlorobutadiene	NELAP	0.184	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Hexachlorocyclopentadiene	NELAP	0.121	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Hexachloroethane	NELAP	0.198	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Isophorone	NELAP	0.14	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
m,p-Cresol	NELAP	0.149	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Naphthalene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Nitrobenzene	NELAP	0.148	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
N-Nitroso-di-n-propylamine	NELAP	0.13	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
N-Nitrosodiphenylamine	NELAP	0.109	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
o-Cresol	NELAP	0.14	0.593		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Pentachlorophenol	NELAP	0.783	2.37		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Phenanthrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Phenol	NELAP	0.138	0.415		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 17:55	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		72.9	%REC	1	09/04/2013 17:55	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		60	%REC	1	09/04/2013 17:55	91570
Surr: 2-Fluorophenol		0	30.5-99		68	%REC	1	09/04/2013 17:55	91570
Surr: Nitrobenzene-d5		0	34.1-101		63.2	%REC	1	09/04/2013 17:55	91570
Surr: Phenol-d5		0	34.9-110		71.4	%REC	1	09/04/2013 17:55	91570
Surr: p-Terphenyl-d14		0	41.7-124		81.2	%REC	1	09/04/2013 17:55	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
2-Butanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
2-Hexanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
4-Methyl-2-pentanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Acetone	NELAP	0.009	0.045	J	0.045	mg/Kg-dry	1	09/10/2013 19:23	91826
Benzene	NELAP	0.0005	0.001		0.002	mg/Kg-dry	1	09/10/2013 19:23	91826
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-005

Client Sample ID: 1467V-11-B03-2

Matrix: SOLID

Collection Date: 08/28/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Ethylbenzene	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/10/2013 19:23	91826
m,p-Xylenes	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/10/2013 19:23	91826
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Toluene	NELAP	0.0009	0.005	J	0.004	mg/Kg-dry	1	09/10/2013 19:23	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Vinyl acetate	NELAP	0.018	0.045		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 19:23	91826
Xylenes, Total	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	09/10/2013 19:23	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.7	%REC	1	09/10/2013 19:23	91826
Surr: 4-Bromofluorobenzene		0	82.1-116	S	118.6	%REC	1	09/10/2013 19:23	91826
Surr: Dibromofluoromethane		0	77.7-120		101.6	%REC	1	09/10/2013 19:23	91826
Surr: Toluene-d8		0	86-116		107	%REC	1	09/10/2013 19:23	91826

Surrogate recovery is outside QC limits due to matrix interference.



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-006

Client Sample ID: 1467V-11-B02-1

Matrix: SOLID

Collection Date: 08/29/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		15.1	%	1	09/03/2013 12:41	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		84.9	%	1	09/03/2013 12:41	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.02		1	09/04/2013 10:46	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0464	mg/L	1	09/06/2013 19:16	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:16	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:16	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:16	91695
Chromium	NELAP	0.004	0.01	J	0.006	mg/L	1	09/06/2013 19:16	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:16	91695
Iron	NELAP	0.007	0.02		3	mg/L	1	09/06/2013 19:16	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:16	91695
Manganese	NELAP	0.0016	0.005		0.0101	mg/L	1	09/06/2013 19:16	91695
Nickel	NELAP	0.0033	0.01	J	0.0034	mg/L	1	09/06/2013 19:16	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:16	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:16	91695
Zinc	NELAP	0.0021	0.01		0.0115	mg/L	1	09/06/2013 19:16	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 23:05	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:26	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:15	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		21600	mg/Kg-dry	1	09/06/2013 1:26	91586
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/06/2013 1:44	91640
Arsenic	NELAP	1.25	2.5		2.98	mg/Kg-dry	1	09/06/2013 1:26	91586
Barium	NELAP	0.25	0.5		164	mg/Kg-dry	1	09/06/2013 1:26	91586
Beryllium	NELAP	0.05	0.1		1	mg/Kg-dry	1	09/06/2013 1:26	91586
Boron	NELAP	1	2		5.68	mg/Kg-dry	1	09/06/2013 1:26	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 1:26	91586
Calcium	NELAP	2.5	5		5770	mg/Kg-dry	1	09/06/2013 1:26	91586
Chromium	NELAP	0.5	1	X	29.1	mg/Kg-dry	1	09/06/2013 1:26	91586
Cobalt	NELAP	0.5	1		9.29	mg/Kg-dry	1	09/06/2013 1:26	91586
Copper	NELAP	0.5	1		22.9	mg/Kg-dry	1	09/06/2013 1:26	91586
Iron	NELAP	1	2	X	21400	mg/Kg-dry	1	09/06/2013 1:26	91586
Lead	NELAP	2	4		14.4	mg/Kg-dry	1	09/06/2013 1:26	91586
Magnesium	NELAP	0.5	1		5870	mg/Kg-dry	1	09/06/2013 1:26	91586
Manganese	NELAP	0.25	0.5		319	mg/Kg-dry	1	09/06/2013 1:26	91586
Nickel	NELAP	0.5	1		28.2	mg/Kg-dry	1	09/06/2013 1:26	91586
Potassium	NELAP	5	10		1500	mg/Kg-dry	1	09/06/2013 1:26	91586
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/06/2013 1:26	91586
Sodium	NELAP	2.5	5		96.6	mg/Kg-dry	1	09/06/2013 1:26	91586
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/06/2013 1:26	91586
Vanadium	NELAP	0.5	1		45.6	mg/Kg-dry	1	09/06/2013 1:26	91586
Zinc	NELAP	0.5	1		74	mg/Kg-dry	1	09/06/2013 1:26	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-006

Client Sample ID: 1467V-11-B02-1

Matrix: SOLID

Collection Date: 08/29/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/10/2013 13:09	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.03	mg/Kg-dry	1	09/05/2013 12:20	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.157	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
1,2-Dichlorobenzene	NELAP	0.187	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
1,3-Dichlorobenzene	NELAP	0.198	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
1,4-Dichlorobenzene	NELAP	0.187	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4,5-Trichlorophenol	NELAP	0.112	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4,6-Trichlorophenol	NELAP	0.148	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4-Dichlorophenol	NELAP	0.142	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4-Dimethylphenol	NELAP	0.149	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4-Dinitrophenol	NELAP	0.126	1.18		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,4-Dinitrotoluene	NELAP	0.122	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2,6-Dinitrotoluene	NELAP	0.127	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2-Chloronaphthalene	NELAP	0.141	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2-Chlorophenol	NELAP	0.149	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2-Methylnaphthalene	NELAP	0.14	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2-Nitroaniline	NELAP	0.107	1.18		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
2-Nitrophenol	NELAP	0.132	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
3,3'-Dichlorobenzidine	NELAP	0.235	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
3-Nitroaniline	NELAP	0.097	1.18		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4,6-Dinitro-2-methylphenol	NELAP	0.127	1.18		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Bromophenyl phenyl ether	NELAP	0.108	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Chloro-3-methylphenol	NELAP	0.129	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Chloroaniline	NELAP	0.142	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Chlorophenyl phenyl ether	NELAP	0.117	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Nitroaniline	NELAP	0.107	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
4-Nitrophenol	NELAP	0.115	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Acenaphthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Acenaphthylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Benzo(a)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Benzo(a)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Benzo(b)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Benzo(k)fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Bis(2-chloroethoxy)methane	NELAP	0.138	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Bis(2-chloroethyl)ether	NELAP	0.167	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Bis(2-chloroisopropyl)ether	NELAP	0.134	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.138	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Butyl benzyl phthalate	NELAP	0.119	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Carbazole		0.144	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Chrysene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Dibenzofuran	NELAP	0.148	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Diethyl phthalate	NELAP	0.113	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-006

Client Sample ID: 1467V-11-B02-1

Matrix: SOLID

Collection Date: 08/29/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.107	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Di-n-butyl phthalate	NELAP	0.121	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Di-n-octyl phthalate	NELAP	0.122	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Fluoranthene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Fluorene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Hexachlorobenzene	NELAP	0.115	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Hexachlorobutadiene	NELAP	0.182	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Hexachlorocyclopentadiene	NELAP	0.12	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Hexachloroethane	NELAP	0.197	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Isophorone	NELAP	0.139	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
m,p-Cresol	NELAP	0.148	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Naphthalene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Nitrobenzene	NELAP	0.147	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
N-Nitroso-di-n-propylamine	NELAP	0.129	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
N-Nitrosodiphenylamine	NELAP	0.108	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
o-Cresol	NELAP	0.139	0.589		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Pentachlorophenol	NELAP	0.777	2.35		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Phenanthrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Phenol	NELAP	0.137	0.412		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Pyrene	NELAP	0.02	0.04		ND	mg/Kg-dry	1	09/04/2013 18:27	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		73.3	%REC	1	09/04/2013 18:27	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		61.7	%REC	1	09/04/2013 18:27	91570
Surr: 2-Fluorophenol		0	30.5-99		67.6	%REC	1	09/04/2013 18:27	91570
Surr: Nitrobenzene-d5		0	34.1-101		74.8	%REC	1	09/04/2013 18:27	91570
Surr: Phenol-d5		0	34.9-110		70.8	%REC	1	09/04/2013 18:27	91570
Surr: p-Terphenyl-d14		0	41.7-124		82.7	%REC	1	09/04/2013 18:27	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
2-Butanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
2-Hexanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
4-Methyl-2-pentanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Acetone	NELAP	0.0089	0.045	J	0.014	mg/Kg-dry	1	09/10/2013 19:50	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-006

Client Sample ID: 1467V-11-B02-1

Matrix: SOLID

Collection Date: 08/29/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 19:50	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Vinyl acetate	NELAP	0.0178	0.045		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 19:50	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.8	%REC	1	09/10/2013 19:50	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		107	%REC	1	09/10/2013 19:50	91826
Surr: Dibromofluoromethane		0	77.7-120		105.7	%REC	1	09/10/2013 19:50	91826
Surr: Toluene-d8		0	86-116		101.8	%REC	1	09/10/2013 19:50	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-007

Client Sample ID: 1467V-11-B02-2

Matrix: SOLID

Collection Date: 08/29/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.2	%	1	09/03/2013 12:45	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.8	%	1	09/03/2013 12:45	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.32		1	09/04/2013 10:48	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.027	mg/L	1	09/06/2013 19:20	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 19:20	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 19:20	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 19:20	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 19:20	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 19:20	91695
Iron	NELAP	0.007	0.02		0.886	mg/L	1	09/06/2013 19:20	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 19:20	91695
Manganese	NELAP	0.0016	0.005		0.0077	mg/L	1	09/06/2013 19:20	91695
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 19:20	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 19:20	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 19:20	91695
Zinc	NELAP	0.0021	0.01	J	0.0057	mg/L	1	09/06/2013 19:20	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 23:09	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:29	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:22	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		4870	mg/Kg-dry	1	09/06/2013 1:32	91586
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 1:48	91640
Arsenic	NELAP	1.23	2.45	J	1.95	mg/Kg-dry	1	09/06/2013 15:01	91586
Barium	NELAP	0.25	0.49		24.6	mg/Kg-dry	1	09/06/2013 1:32	91586
Beryllium	NELAP	0.05	0.1		0.31	mg/Kg-dry	1	09/06/2013 1:32	91586
Boron	NELAP	0.98	1.96		6.35	mg/Kg-dry	1	09/06/2013 1:32	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 1:32	91586
Calcium	NELAP	2.45	4.9		68000	mg/Kg-dry	1	09/06/2013 1:32	91586
Chromium	NELAP	0.49	0.98		9.72	mg/Kg-dry	1	09/06/2013 1:32	91586
Cobalt	NELAP	0.49	0.98		3.63	mg/Kg-dry	1	09/06/2013 1:32	91586
Copper	NELAP	0.49	0.98		8.48	mg/Kg-dry	1	09/06/2013 1:32	91586
Iron	NELAP	0.98	1.96		9280	mg/Kg-dry	1	09/06/2013 1:32	91586
Lead	NELAP	1.96	3.92		4.23	mg/Kg-dry	1	09/06/2013 1:32	91586
Magnesium	NELAP	0.49	0.98		32300	mg/Kg-dry	1	09/06/2013 1:32	91586
Manganese	NELAP	0.25	0.49		211	mg/Kg-dry	1	09/06/2013 1:32	91586
Nickel	NELAP	0.49	0.98		9.84	mg/Kg-dry	1	09/06/2013 1:32	91586
Potassium	NELAP	4.9	9.8		1270	mg/Kg-dry	1	09/06/2013 1:32	91586
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 1:32	91586
Sodium	NELAP	2.45	4.9		119	mg/Kg-dry	1	09/06/2013 1:32	91586
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 1:32	91586
Vanadium	NELAP	0.49	0.98		14.4	mg/Kg-dry	1	09/06/2013 1:32	91586
Zinc	NELAP	0.49	0.98		24.1	mg/Kg-dry	1	09/06/2013 1:32	91586



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-007

Client Sample ID: 1467V-11-B02-2

Matrix: SOLID

Collection Date: 08/29/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/10/2013 13:13	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012	J	0.008	mg/Kg-dry	1	09/05/2013 12:22	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.159	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
1,2-Dichlorobenzene	NELAP	0.19	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
1,3-Dichlorobenzene	NELAP	0.201	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
1,4-Dichlorobenzene	NELAP	0.19	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4,5-Trichlorophenol	NELAP	0.113	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4,6-Trichlorophenol	NELAP	0.15	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4-Dichlorophenol	NELAP	0.144	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4-Dimethylphenol	NELAP	0.152	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4-Dinitrophenol	NELAP	0.128	1.19		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,4-Dinitrotoluene	NELAP	0.124	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2,6-Dinitrotoluene	NELAP	0.129	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2-Chloronaphthalene	NELAP	0.143	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2-Chlorophenol	NELAP	0.152	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2-Methylnaphthalene	NELAP	0.142	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2-Nitroaniline	NELAP	0.109	1.19		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
2-Nitrophenol	NELAP	0.134	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
3,3'-Dichlorobenzidine	NELAP	0.239	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
3-Nitroaniline	NELAP	0.098	1.19		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4,6-Dinitro-2-methylphenol	NELAP	0.129	1.19		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Bromophenyl phenyl ether	NELAP	0.11	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Chloro-3-methylphenol	NELAP	0.131	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Chloroaniline	NELAP	0.144	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Chlorophenyl phenyl ether	NELAP	0.118	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Nitroaniline	NELAP	0.109	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
4-Nitrophenol	NELAP	0.117	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Bis(2-chloroethoxy)methane	NELAP	0.14	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Bis(2-chloroethyl)ether	NELAP	0.17	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Bis(2-chloroisopropyl)ether	NELAP	0.136	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.14	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Butyl benzyl phthalate	NELAP	0.121	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Carbazole		0.146	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Dibenzofuran	NELAP	0.15	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Diethyl phthalate	NELAP	0.115	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-007

Client Sample ID: 1467V-11-B02-2

Matrix: SOLID

Collection Date: 08/29/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.109	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Di-n-butyl phthalate	NELAP	0.123	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Di-n-octyl phthalate	NELAP	0.124	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Hexachlorobenzene	NELAP	0.117	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Hexachlorobutadiene	NELAP	0.185	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Hexachlorocyclopentadiene	NELAP	0.122	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Hexachloroethane	NELAP	0.199	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Isophorone	NELAP	0.141	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
m,p-Cresol	NELAP	0.15	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Nitrobenzene	NELAP	0.149	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
N-Nitroso-di-n-propylamine	NELAP	0.131	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
N-Nitrosodiphenylamine	NELAP	0.11	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
o-Cresol	NELAP	0.141	0.597		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Pentachlorophenol	NELAP	0.788	2.39		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Phenol	NELAP	0.139	0.418		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/04/2013 18:59	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		68.2	%REC	1	09/04/2013 18:59	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		60.8	%REC	1	09/04/2013 18:59	91570
Surr: 2-Fluorophenol		0	30.5-99		69	%REC	1	09/04/2013 18:59	91570
Surr: Nitrobenzene-d5		0	34.1-101		66.3	%REC	1	09/04/2013 18:59	91570
Surr: Phenol-d5		0	34.9-110		70.6	%REC	1	09/04/2013 18:59	91570
Surr: p-Terphenyl-d14		0	41.7-124		82.8	%REC	1	09/04/2013 18:59	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
2-Butanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
2-Hexanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
4-Methyl-2-pentanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Acetone	NELAP	0.0078	0.039	J	0.023	mg/Kg-dry	1	09/10/2013 20:16	91826
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/10/2013 20:16	91826
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090002

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090002-007

Client Sample ID: 1467V-11-B02-2

Matrix: SOLID

Collection Date: 08/29/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 20:16	91826
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 20:16	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Toluene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 20:16	91826
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Vinyl acetate	NELAP	0.0156	0.039		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 20:16	91826
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 20:16	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.9	%REC	1	09/10/2013 20:16	91826
Surr: 4-Bromofluorobenzene		0	82.1-116	S	128.8	%REC	1	09/10/2013 20:16	91826
Surr: Dibromofluoromethane		0	77.7-120		101.4	%REC	1	09/10/2013 20:16	91826
Surr: Toluene-d8		0	86-116		110.3	%REC	1	09/10/2013 20:16	91826

Surrogate recovery is outside QC limits due to matrix interference.

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 13082002

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ANDREW'S
 Address: _____
 City / State / Zip: _____
 Contact: COLLEEN GREY Phone: _____
 E-Mail: _____ Fax: _____

Samples on: Ice Blue Ice No Ice 2.6 °C
 Preserved in: Lab Field **FOR LAB USE ONLY**
 Lab Notes: _____

Comments: **Teklab, Inc. Courier Pick Up**

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number		Billing Instructions		Sample Collector's Name							INDICATE ANALYSIS REQUESTED											
Lab Use Only	Sample Identification	Date/Time Sampled		# and Type of Containers							Water	Drinking Water	Soil	Sludge	Sp. Waste	Voc's	Svcs	Total Metals	SRLP/Trclp	PH	% Solids	
<input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)	<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)			UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	Other											
	1467V-11-B04-1	8-28-13 2:45PM																				
	1467V-11-B04-1 Dup	8-28-13 2:57PM																				
	1467V-11-B04-2	8-28-13 2:55PM																				
	1467V-11-B03-1	8-28-13 4:25PM																				
	1467V-11-B03-2	8-28-13 4:20PM																				
	1467V-11-B02-1	8-29-13 7:55AM																				
	1467V-11-B02-2	8-29-13 8:00AM																				
Relinquished By		Date / Time		Received By							Date / Time											
<u>[Signature]</u>		8-29-13 4:20pm		<u>[Signature]</u>							8-29-13 4:20											
<u>[Signature]</u>		8-31-13 11:00am		<u>[Signature]</u>							8/31/13 11:00am											
<u>[Signature]</u>		8/31/13 1:20pm		<u>[Signature]</u>							8/31/13 1320											

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW - LAB PINK - SAMPLER'S COPY