Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1300 - 1500 Blocks of Sauk Trail Road (NW Quadrant of I-394 and Sauk Trail Road)

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48810 (Decimal Degrees) Longitude: -87.57778 (-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: FAP 332 (IL 394)

Latitude: 41.48810 Longitude: -87.57778

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 2169-2-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2169-2. SEE FIGURE 2 AND TABLE 5a OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID: 500-52033-1

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:

8/5/14
Date:

P.E. or L.P.G. Seal:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-2
Agricultural Land NW

Sample ID	2169-2-B01	2169-2-B02	[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)	0-6	0-6						
Sample Date	11/5/2012	11/5/2012						
PID	0	0						
Sample pH	7.88	7.46						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52033-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/26/2012 8:40:36 AM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 2169-2-B01
Date Collected: 11/05/12 09:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-4
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Chloromethane	<0.0045		0.0045	0.00093	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Dibromochloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,1-Dichloroethane	<0.0045		0.0045	0.00070	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Methylene Chloride	**0.0060**		0.0045	0.0012	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Vinyl chloride	<0.0045		0.0045	0.00093	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/05/12 09:30	11/08/12 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*	*11/05/12 09:30*	*11/08/12 13:23*	*1*
Dibromofluoromethane	*97*		*73 - 122*	*11/05/12 09:30*	*11/08/12 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 123*	*11/05/12 09:30*	*11/08/12 13:23*	*1*
Toluene-d8 (Surr)	*94*		*72 - 122*	*11/05/12 09:30*	*11/08/12 13:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-2-B01
Date Collected: 11/05/12 09:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-4
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Acenaphthene	**0.011**	**J**	0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Fluorene	**0.027**	**J**	0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Phenanthrene	**0.028**	**J**	0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Anthracene	**0.0096**	**J**	0.038	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Pyrene	**0.022**	**J**	0.038	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1

Client Sample ID: 2169-2-B01
Date Collected: 11/05/12 09:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-4
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*30 - 110*	*11/15/12 07:26*	*11/23/12 12:35*	*1*
Phenol-d5	*70*		*31 - 110*	*11/15/12 07:26*	*11/23/12 12:35*	*1*
Nitrobenzene-d5	*67*		*30 - 115*	*11/15/12 07:26*	*11/23/12 12:35*	*1*
2-Fluorobiphenyl	*79*		*30 - 119*	*11/15/12 07:26*	*11/23/12 12:35*	*1*
2,4,6-Tribromophenol	*94*		*35 - 137*	*11/15/12 07:26*	*11/23/12 12:35*	*1*
Terphenyl-d14	*82*		*36 - 134*	*11/15/12 07:26*	*11/23/12 12:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Arsenic	**5.5**		0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Barium	**39**		0.56	0.066	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Beryllium	**0.56**		0.22	0.016	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Boron	**8.4**		2.8	0.52	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Cadmium	**0.35**		0.11	0.027	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Calcium	**44000**	**B**	11	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Chromium	**15**	**B**	0.56	0.093	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Cobalt	**9.6**		0.28	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Copper	**16**		0.56	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Iron	**17000**	**B**	11	4.8	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Lead	**8.7**	**B**	0.28	0.096	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Magnesium	**20000**	**B**	5.6	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Manganese	**300**	**B**	0.56	0.078	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Nickel	**23**	**B**	0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Potassium	**2200**		28	3.1	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Sodium	**380**	**B**	56	10	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Thallium	**0.19**	**J**	0.56	0.14	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Vanadium	**17**		0.28	0.042	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1
Zinc	**34**	**B**	1.1	0.38	mg/Kg	☼	11/06/12 16:30	11/15/12 06:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.35**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 12:52	1
Boron	**0.12**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 12:52	1
Cadmium	**0.0025**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 12:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-2-B01
Date Collected: 11/05/12 09:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Cobalt	**0.049**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 12:52	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 12:52	1
Lead	**0.0055**	**J**	0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 12:52	1
Manganese	**5.1**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Nickel	**0.050**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 12:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 12:52	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:06	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:34	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**B**	0.017	0.0065	mg/Kg	☼	11/14/12 18:00	11/15/12 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.88**		0.200	0.200	SU			11/08/12 16:46	1

Client Sample ID: 2169-2-B02
Date Collected: 11/05/12 09:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-5
Matrix: Solid
Percent Solids: 72.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0092**		0.0058	0.0025	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Benzene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00083	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00077	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,2-Dichloropropane	<0.0058		0.0058	0.00089	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00077	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Methylene Chloride	**0.013**		0.0058	0.0016	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Styrene	<0.0058		0.0058	0.00077	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Toluene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00080	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	11/05/12 09:40	11/08/12 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*	*11/05/12 09:40*	*11/08/12 14:09*	*1*
Dibromofluoromethane	*93*		*73 - 122*	*11/05/12 09:40*	*11/08/12 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*74 - 123*	*11/05/12 09:40*	*11/08/12 14:09*	*1*
Toluene-d8 (Surr)	*95*		*72 - 122*	*11/05/12 09:40*	*11/08/12 14:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.070	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
1,3-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
1,4-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
1,2-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-2-B02
Date Collected: 11/05/12 09:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-5
Matrix: Solid
Percent Solids: 72.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.22		0.22	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Hexachloroethane	<0.22		0.22	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2-Chlorophenol	<0.22		0.22	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Nitrobenzene	<0.044		0.044	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4-Dimethylphenol	<0.44		0.44	0.14	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Hexachlorobutadiene	<0.22		0.22	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Naphthalene	<0.044		0.044	0.0085	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4-Dichlorophenol	<0.44		0.44	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Chloroaniline	<0.89		0.89	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4,6-Trichlorophenol	<0.44		0.44	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4,5-Trichlorophenol	<0.44		0.44	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Hexachlorocyclopentadiene	<0.89		0.89	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2-Methylnaphthalene	<0.22		0.22	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2-Nitroaniline	<0.22		0.22	0.080	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2-Chloronaphthalene	<0.22		0.22	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Chloro-3-methylphenol	<0.44		0.44	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,6-Dinitrotoluene	<0.22		0.22	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2-Nitrophenol	<0.44		0.44	0.070	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
3-Nitroaniline	<0.44		0.44	0.086	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Dimethyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4-Dinitrophenol	<0.89		0.89	0.23	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Acenaphthylene	<0.044		0.044	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Acenaphthene	<0.044		0.044	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Dibenzofuran	<0.22		0.22	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Nitrophenol	<0.89		0.89	0.24	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Fluorene	<0.044		0.044	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Nitroaniline	<0.44		0.44	0.091	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Hexachlorobenzene	<0.089		0.089	0.0087	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Diethyl phthalate	<0.22		0.22	0.074	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.070	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Pentachlorophenol	<0.89		0.89	0.23	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
N-Nitrosodiphenylamine	<0.22		0.22	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
4,6-Dinitro-2-methylphenol	<0.44		0.44	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Phenanthrene	<0.044		0.044	0.019	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Anthracene	<0.044		0.044	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Carbazole	<0.22		0.22	0.062	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Di-n-butyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Fluoranthene	<0.044		0.044	0.018	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Pyrene	<0.044		0.044	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Butyl benzyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Benzo[a]anthracene	<0.044		0.044	0.0093	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Chrysene	<0.044		0.044	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-2-B02
Date Collected: 11/05/12 09:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-5
Matrix: Solid
Percent Solids: 72.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.22		0.22	0.037	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Di-n-octyl phthalate	<0.22		0.22	0.090	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Benzo[b]fluoranthene	<0.044		0.044	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Benzo[k]fluoranthene	<0.044		0.044	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Benzo[a]pyrene	<0.044		0.044	0.0081	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.015	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Dibenz(a,h)anthracene	<0.044		0.044	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
Benzo[g,h,i]perylene	<0.044		0.044	0.015	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1
3 & 4 Methylphenol	<0.22		0.22	0.084	mg/Kg	☼	11/15/12 07:26	11/23/12 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*61*		*30 - 110*	*11/15/12 07:26*	*11/23/12 12:55*	*1*
Phenol-d5	*70*		*31 - 110*	*11/15/12 07:26*	*11/23/12 12:55*	*1*
Nitrobenzene-d5	*68*		*30 - 115*	*11/15/12 07:26*	*11/23/12 12:55*	*1*
2-Fluorobiphenyl	*68*		*30 - 119*	*11/15/12 07:26*	*11/23/12 12:55*	*1*
2,4,6-Tribromophenol	*96*		*35 - 137*	*11/15/12 07:26*	*11/23/12 12:55*	*1*
Terphenyl-d14	*78*		*36 - 134*	*11/15/12 07:26*	*11/23/12 12:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.18	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Arsenic	**10**		0.68	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Barium	**170**		0.68	0.081	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Beryllium	**1.3**		0.27	0.020	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Boron	**2.9**	**J**	3.4	0.64	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Cadmium	**0.32**		0.14	0.034	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Calcium	**3700**	**B**	14	2.4	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Chromium	**23**	**B**	0.68	0.11	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Cobalt	**8.4**		0.34	0.036	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Copper	**46**		0.68	0.18	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Iron	**24000**	**B**	14	5.9	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Lead	**16**	**B**	0.34	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Magnesium	**4900**	**B**	6.8	1.3	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Manganese	**110**	**B**	0.68	0.096	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Nickel	**35**	**B**	0.68	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Potassium	**1400**		34	3.9	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Selenium	<0.68		0.68	0.20	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Silver	<0.34		0.34	0.041	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Sodium	**1500**	**B**	68	12	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Thallium	**0.31**	**J**	0.68	0.18	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Vanadium	**37**		0.34	0.052	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1
Zinc	**62**	**B**	1.4	0.47	mg/Kg	☼	11/06/12 16:30	11/15/12 07:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.32**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 13:13	1
Boron	**0.16**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 13:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 13:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-2-B02
Date Collected: 11/05/12 09:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Cobalt	**0.0075**	**J**	0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:13	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 13:13	1
Lead	**0.0051**	**J**	0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 13:13	1
Manganese	**0.36**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 13:13	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:13	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:35	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**	**B**	0.021	0.0081	mg/Kg	☼	11/14/12 18:00	11/15/12 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.46**		0.200	0.200	SU			11/08/12 16:49	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011-054 TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 1 of 2

Lab Job No.: 500-52033

Sample Temp: 1.6, 1.4, 2.1

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.
3-G01, 20-G01 will not be sampled.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals (Inorg)	TCLP/*SPLP Metals (Inorg)	pH	% Solids	Waste Characterization					Comments
1	2169-3-B02	11/5/12	8:20	S	X	X					X	X	X	X						0-2'
2	2169-3-B01-1		8:30		X	X					X	X	X	X						0-6'
3	2169-3-B01-2		8:40		X	X					X	X	X	X						6-12'
4	2169-2-B01		9:30		X	X					X	X	X	X						0-6'
5	2169-2-B02		9:40		X	X					X	X	X	X						~~0-6'~~ 0-6'
6	2169-8-B01-1		10:15		X	X					X	X	X	X						0-6'
7	2169-8-B01-2		10:20		X	X					X	X	X	X						6'-12'
8	2169-8-B02		10:25		X	X					X	X	X	X						0'-2'
9	2169-8-B03-1		11:25		X	X					X	X	X	X						0-6'
10	2169-8-B03-2		11:30		X	X					X	X	X	X						6-12'
11	2169-8-B03-1DUP		11:35		X	X					X	X	X	X						0-6'
12	2169-20-B02		11:50		X	X					X	X	X	X						0'-2'

Relinquished by:	Date/Time 11/5/12 3:30pm	Received by:	Date/Time 11-5-12/1570
Relinquished by:	Date/Time 11-5-12/1612	Received by:	Date/Time 11/6/12 0800
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1500 Block of Sauk Trail Road (SW corner of intersection of I-394 and Sauk Trail Road)

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48686 (Decimal Degrees) Longitude: -87.57774 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: 0310000000 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: FAP 332 (IL 394)

Latitude: 41.48686 Longitude: -87.57774

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 2169-8-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2169-8. SEE FIGURE 2 AND TABLE 5c OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID: 500-52033-1

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:

8/5/14
Date:

P.E. or L.P.G. Seal:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-8
Vacant Land

Sample ID	2169-8-B01-1	2169-8-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)	0-6	6-12						
Sample Date	11/5/2012	11/5/2012						
PID	0	0						
Sample pH	8.45	8.55						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52033-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/26/2012 8:40:36 AM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 2169-8-B01-1
Date Collected: 11/05/12 10:15
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-6
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0046	0.0020	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/05/12 10:15	11/08/12 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*76 - 120*	*11/05/12 10:15*	*11/08/12 14:32*	*1*
Dibromofluoromethane	*98*		*73 - 122*	*11/05/12 10:15*	*11/08/12 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 123*	*11/05/12 10:15*	*11/08/12 14:32*	*1*
Toluene-d8 (Surr)	*94*		*72 - 122*	*11/05/12 10:15*	*11/08/12 14:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-8-B01-1
Date Collected: 11/05/12 10:15
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-6
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
3-Nitroaniline	<0.41		0.41	0.081	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Acenaphthylene	<0.041		0.041	0.0096	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Nitroaniline	<0.41		0.41	0.086	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Phenanthrene	**0.027**	**J**	0.041	0.017	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Chrysene	**0.010**	**J**	0.041	0.0094	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1

Client Sample ID: 2169-8-B01-1
Date Collected: 11/05/12 10:15
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-6
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Benzo[b]fluoranthene	<0.041		0.041	0.0081	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Benzo[a]pyrene	<0.041		0.041	0.0076	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.041	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/15/12 07:26	11/23/12 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*30 - 110*	*11/15/12 07:26*	*11/23/12 13:15*	*1*
Phenol-d5	*72*		*31 - 110*	*11/15/12 07:26*	*11/23/12 13:15*	*1*
Nitrobenzene-d5	*68*		*30 - 115*	*11/15/12 07:26*	*11/23/12 13:15*	*1*
2-Fluorobiphenyl	*79*		*30 - 119*	*11/15/12 07:26*	*11/23/12 13:15*	*1*
2,4,6-Tribromophenol	*91*		*35 - 137*	*11/15/12 07:26*	*11/23/12 13:15*	*1*
Terphenyl-d14	*76*		*36 - 134*	*11/15/12 07:26*	*11/23/12 13:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Arsenic	**10**		0.59	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Barium	**74**		0.59	0.070	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Beryllium	**0.68**		0.24	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Boron	**5.7**		2.9	0.55	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Cadmium	**0.56**		0.12	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Calcium	**37000**	**B**	12	2.1	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Chromium	**16**	**B**	0.59	0.098	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Cobalt	**14**		0.29	0.031	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Copper	**19**		0.59	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Iron	**22000**	**B**	12	5.1	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Lead	**90**	**B**	0.29	0.10	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Magnesium	**22000**	**B**	5.9	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Manganese	**570**	**B**	0.59	0.083	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Nickel	**20**	**B**	0.59	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Potassium	**2000**		29	3.3	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Sodium	**2100**	**B**	59	11	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Thallium	**0.37**	**J**	0.59	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Vanadium	**21**		0.29	0.045	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1
Zinc	**55**	**B**	1.2	0.40	mg/Kg	☼	11/06/12 16:30	11/15/12 07:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.55**		0.50	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 13:19	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 13:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 13:19	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-8-B01-1
Date Collected: 11/05/12 10:15
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Cobalt	**0.054**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:19	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Iron	**0.27**		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 13:19	1
Lead	**0.0095**		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 13:19	1
Manganese	**9.9**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Nickel	**0.044**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 13:19	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:19	1
Zinc	**0.024**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/15/12 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:08	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:41	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**	**B**	0.019	0.0072	mg/Kg	☼	11/14/12 18:00	11/15/12 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.45**		0.200	0.200	SU			11/08/12 16:53	1

Client Sample ID: 2169-8-B01-2
Date Collected: 11/05/12 10:20
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0053		0.0045	0.0019	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/05/12 10:20	11/08/12 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*76 - 120*	*11/05/12 10:20*	*11/08/12 14:55*	*1*
Dibromofluoromethane	*98*		*73 - 122*	*11/05/12 10:20*	*11/08/12 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 123*	*11/05/12 10:20*	*11/08/12 14:55*	*1*
Toluene-d8 (Surr)	*93*		*72 - 122*	*11/05/12 10:20*	*11/08/12 14:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-8-B01-2
Date Collected: 11/05/12 10:20
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1

Client Sample ID: 2169-8-B01-2
Date Collected: 11/05/12 10:20
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Bis(2-ethylhexyl) phthalate	**0.087**	**J**	0.20	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/15/12 07:26	11/23/12 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*65*		*30 - 110*	*11/15/12 07:26*	*11/23/12 13:36*	*1*
Phenol-d5	*32*		*31 - 110*	*11/15/12 07:26*	*11/23/12 13:36*	*1*
Nitrobenzene-d5	*46*		*30 - 115*	*11/15/12 07:26*	*11/23/12 13:36*	*1*
2-Fluorobiphenyl	*71*		*30 - 119*	*11/15/12 07:26*	*11/23/12 13:36*	*1*
2,4,6-Tribromophenol	*90*		*35 - 137*	*11/15/12 07:26*	*11/23/12 13:36*	*1*
Terphenyl-d14	*70*		*36 - 134*	*11/15/12 07:26*	*11/23/12 13:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Arsenic	**7.3**		0.57	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Barium	**49**		0.57	0.067	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Beryllium	**0.62**		0.23	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Boron	**9.7**		2.8	0.53	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Cadmium	**0.43**		0.11	0.028	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Calcium	**49000**	**B**	11	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Chromium	**17**	**B**	0.57	0.095	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Cobalt	**13**		0.28	0.030	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Copper	**16**		0.57	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Iron	**18000**	**B**	11	4.9	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Lead	**9.8**	**B**	0.28	0.097	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Magnesium	**22000**	**B**	5.7	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Manganese	**420**	**B**	0.57	0.080	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Nickel	**27**	**B**	0.57	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Potassium	**2500**		28	3.2	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Sodium	**1900**	**B**	57	10	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Vanadium	**18**		0.28	0.043	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1
Zinc	**41**	**B**	1.1	0.39	mg/Kg	☼	11/06/12 16:30	11/15/12 07:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.32**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 13:26	1
Boron	**0.083**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 13:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 13:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-8-B01-2
Date Collected: 11/05/12 10:20
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Cobalt	**0.0056**	**J**	0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:26	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 13:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 13:26	1
Manganese	**1.7**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 13:26	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:26	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:09	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:43	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**	**B**	0.019	0.0071	mg/Kg	☼	11/14/12 18:00	11/15/12 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.55**		0.200	0.200	SU			11/08/12 16:56	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011-054 TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 1 of 2

Lab Job No.: 500-52033

Sample Temp: 1.6, 1.4, 2.1

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.
3-G01, 20-G01 will not be sampled.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals (Inorg)	TCLP/*SPLP Metals (Inorg)	pH	% Solids	Waste Characterization					Comments
1	2169-3-B02	11/5/12	8:20	S	X	X					X	X	X	X						0-2'
2	2169-3-B01-1		8:30		X	X					X	X	X	X						0-6'
3	2169-3-B01-2		8:40		X	X					X	X	X	X						6-12'
4	2169-2-B01		9:30		X	X					X	X	X	X						0-6'
5	2169-2-B02		9:40		X	X					X	X	X	X						~~0-6'~~ 0-6'
6	2169-8-B01-1		10:15		X	X					X	X	X	X						0-6'
7	2169-8-B01-2		10:20		X	X					X	X	X	X						6'-12'
8	2169-8-B02		10:25		X	X					X	X	X	X						0'-2'
9	2169-8-B03-1		11:25		X	X					X	X	X	X						0-6'
10	2169-8-B03-2		11:30		X	X					X	X	X	X						6-12'
11	2169-8-B03-1DUP		11:35		X	X					X	X	X	X						0-6'
12	2169-20-B02		11:50		X	X					X	X	X	X						0'-2'

Relinquished by:	Date/Time 11/5/12 3:30pm	Received by:	Date/Time 11-5-12/1570
Relinquished by:	Date/Time 11-5-12/1612	Received by:	Date/Time 11/6/12 0800
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

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

1680 Sauk Trail Road

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48694 (Decimal Degrees) Longitude: -87.57711 (-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: FAP 332 (IL 394)

Latitude: 41.48694 Longitude: -87.57711

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 2169-20-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2169-20. SEE FIGURE 2 AND TABLE 5d OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID: 500-52033-1

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:

8/5/14
Date:

P.E. or L.P.G. Seal:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-20

C. James Auto Sales

Sample ID	2169-20-B01-1	2169-20-B01-2	2169-20-B02	[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)	0-6	6-12	0-2						
Sample Date	11/5/2012	11/5/2012	11/5/2012						
PID	0	0	0						
Sample pH	8.43	8.72	8.88						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52033-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/26/2012 8:40:36 AM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 2169-20-B02
Date Collected: 11/05/12 11:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-12
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.017**		0.0050	0.0022	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Methylene Chloride	**0.0069**		0.0050	0.0013	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/05/12 11:50	11/08/12 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*	*11/05/12 11:50*	*11/08/12 16:49*	*1*
Dibromofluoromethane	*98*		*73 - 122*	*11/05/12 11:50*	*11/08/12 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*74 - 123*	*11/05/12 11:50*	*11/08/12 16:49*	*1*
Toluene-d8 (Surr)	*97*		*72 - 122*	*11/05/12 11:50*	*11/08/12 16:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B02
Date Collected: 11/05/12 11:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-12
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1

Client Sample ID: 2169-20-B02
Date Collected: 11/05/12 11:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-12
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/15/12 07:26	11/23/12 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*30 - 110*	*11/15/12 07:26*	*11/23/12 15:39*	*1*
Phenol-d5	*78*		*31 - 110*	*11/15/12 07:26*	*11/23/12 15:39*	*1*
Nitrobenzene-d5	*77*		*30 - 115*	*11/15/12 07:26*	*11/23/12 15:39*	*1*
2-Fluorobiphenyl	*77*		*30 - 119*	*11/15/12 07:26*	*11/23/12 15:39*	*1*
2,4,6-Tribromophenol	*95*		*35 - 137*	*11/15/12 07:26*	*11/23/12 15:39*	*1*
Terphenyl-d14	*74*		*36 - 134*	*11/15/12 07:26*	*11/23/12 15:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Arsenic	**6.2**		0.59	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Barium	**98**		0.59	0.070	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Beryllium	**0.90**		0.24	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Boron	**5.2**		2.9	0.55	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Cadmium	**0.22**		0.12	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Calcium	**2400**	**B**	12	2.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Chromium	**23**	**B**	0.59	0.098	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Cobalt	**10**		0.29	0.031	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Copper	**18**		0.59	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Iron	**23000**	**B**	12	5.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Lead	**11**	**B**	0.29	0.10	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Magnesium	**5300**	**B**	5.9	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Manganese	**190**	**B**	0.59	0.083	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Nickel	**29**	**B**	0.59	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Potassium	**2300**		29	3.3	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Sodium	**1800**	**B**	59	11	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Thallium	**0.36**	**J**	0.59	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Vanadium	**24**		0.29	0.045	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1
Zinc	**47**	**B**	1.2	0.40	mg/Kg	☼	11/06/12 16:30	11/15/12 08:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.61**		0.50	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 13:57	1
Boron	**0.19**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 13:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 13:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B02
Date Collected: 11/05/12 11:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Cobalt	**0.025**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:57	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Iron	**0.51**		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 13:57	1
Lead	**0.013**		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 13:57	1
Manganese	**2.6**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Nickel	**0.022**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 13:57	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 13:57	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:13	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:51	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**	**B**	0.018	0.0070	mg/Kg	☼	11/14/12 18:00	11/15/12 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.88**		0.200	0.200	SU			11/08/12 17:14	1

Client Sample ID: 2169-20-B01-1
Date Collected: 11/05/12 12:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-13
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,2-Dichloropropane	<0.0048		0.0048	0.00074	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Methylene Chloride	**0.0072**		0.0048	0.0013	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	11/05/12 12:50	11/08/12 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*	*11/05/12 12:50*	*11/08/12 17:12*	*1*
Dibromofluoromethane	*99*		*73 - 122*	*11/05/12 12:50*	*11/08/12 17:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 123*	*11/05/12 12:50*	*11/08/12 17:12*	*1*
Toluene-d8 (Surr)	*92*		*72 - 122*	*11/05/12 12:50*	*11/08/12 17:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-1
Date Collected: 11/05/12 12:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-13
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Phenanthrene	**0.019**	**J**	0.037	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Fluoranthene	**0.021**	**J**	0.037	0.015	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Pyrene	**0.023**	**J**	0.037	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Benzo[a]anthracene	**0.011**	**J**	0.037	0.0079	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Chrysene	**0.014**	**J**	0.037	0.0085	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-1
Date Collected: 11/05/12 12:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-13
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Benzo[b]fluoranthene	**0.017**	**J**	0.037	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Benzo[a]pyrene	**0.011**	**J**	0.037	0.0068	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
Benzo[g,h,i]perylene	**0.019**	**J**	0.037	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/15/12 07:26	11/23/12 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*30 - 110*	*11/15/12 07:26*	*11/23/12 15:59*	*1*
Phenol-d5	*79*		*31 - 110*	*11/15/12 07:26*	*11/23/12 15:59*	*1*
Nitrobenzene-d5	*78*		*30 - 115*	*11/15/12 07:26*	*11/23/12 15:59*	*1*
2-Fluorobiphenyl	*82*		*30 - 119*	*11/15/12 07:26*	*11/23/12 15:59*	*1*
2,4,6-Tribromophenol	*89*		*35 - 137*	*11/15/12 07:26*	*11/23/12 15:59*	*1*
Terphenyl-d14	*75*		*36 - 134*	*11/15/12 07:26*	*11/23/12 15:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Arsenic	**4.6**		0.55	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Barium	**44**		0.55	0.065	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Beryllium	**0.59**		0.22	0.016	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Boron	**8.6**		2.7	0.51	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Cadmium	**0.43**		0.11	0.027	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Calcium	**66000**	**B**	110	19	mg/Kg	☼	11/06/12 16:30	11/15/12 11:44	10
Chromium	**19**	**B**	0.55	0.091	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Cobalt	**8.4**		0.27	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Copper	**15**		0.55	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Iron	**16000**	**B**	11	4.7	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Lead	**13**	**B**	0.27	0.094	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Magnesium	**22000**	**B**	5.5	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Manganese	**280**	**B**	0.55	0.077	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Nickel	**21**	**B**	0.55	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Potassium	**2200**		27	3.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Sodium	**550**	**B**	55	10	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Thallium	**0.18**	**J**	0.55	0.14	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Vanadium	**17**		0.27	0.041	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1
Zinc	**43**	**B**	1.1	0.37	mg/Kg	☼	11/06/12 16:30	11/15/12 08:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.49**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 14:03	1
Boron	**0.17**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 14:03	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 14:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-1
Date Collected: 11/05/12 12:50
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Cobalt	**0.033**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:03	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 14:03	1
Lead	**0.016**		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 14:03	1
Manganese	**3.8**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Nickel	**0.040**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 14:03	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:03	1
Zinc	**0.034**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/15/12 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:14	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:53	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**	**B**	0.019	0.0071	mg/Kg	☼	11/14/12 18:00	11/15/12 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.43**		0.200	0.200	SU			11/08/12 17:18	1

Client Sample ID: 2169-20-B01-2
Date Collected: 11/05/12 12:55
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-14
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00054	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00054	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Methylene Chloride	**0.0060**		0.0042	0.0011	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Styrene	<0.0042		0.0042	0.00054	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Tetrachloroethene	<0.0042		0.0042	0.00063	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00074	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	11/05/12 12:55	11/08/12 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*76 - 120*	*11/05/12 12:55*	*11/08/12 17:35*	*1*
Dibromofluoromethane	*94*		*73 - 122*	*11/05/12 12:55*	*11/08/12 17:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*74 - 123*	*11/05/12 12:55*	*11/08/12 17:35*	*1*
Toluene-d8 (Surr)	*91*		*72 - 122*	*11/05/12 12:55*	*11/08/12 17:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-2
Date Collected: 11/05/12 12:55
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-14
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-2
Date Collected: 11/05/12 12:55
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-14
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Bis(2-ethylhexyl) phthalate	**0.051**	**J**	0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*68*		*30 - 110*	*11/15/12 07:26*	*11/23/12 16:19*	*1*
Phenol-d5	*81*		*31 - 110*	*11/15/12 07:26*	*11/23/12 16:19*	*1*
Nitrobenzene-d5	*79*		*30 - 115*	*11/15/12 07:26*	*11/23/12 16:19*	*1*
2-Fluorobiphenyl	*87*		*30 - 119*	*11/15/12 07:26*	*11/23/12 16:19*	*1*
2,4,6-Tribromophenol	*87*		*35 - 137*	*11/15/12 07:26*	*11/23/12 16:19*	*1*
Terphenyl-d14	*82*		*36 - 134*	*11/15/12 07:26*	*11/23/12 16:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Arsenic	**3.9**		0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Barium	**39**		0.56	0.067	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Beryllium	**0.60**		0.23	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Boron	**9.5**		2.8	0.53	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Cadmium	**0.42**		0.11	0.028	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Calcium	**45000**	**B**	11	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Chromium	**17**	**B**	0.56	0.094	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Cobalt	**7.8**		0.28	0.030	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Copper	**15**		0.56	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Iron	**16000**	**B**	11	4.9	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Lead	**8.5**	**B**	0.28	0.097	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Magnesium	**22000**	**B**	5.6	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Manganese	**330**	**B**	0.56	0.080	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Nickel	**24**	**B**	0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Potassium	**2400**		28	3.2	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Sodium	**490**	**B**	56	10	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Thallium	**0.34**	**J**	0.56	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Vanadium	**17**		0.28	0.043	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1
Zinc	**39**	**B**	1.1	0.39	mg/Kg	☼	11/06/12 16:30	11/15/12 08:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.33**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 14:09	1
Boron	**0.15**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 14:09	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 14:09	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-20-B01-2
Date Collected: 11/05/12 12:55
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Cobalt	**0.042**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:09	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 14:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 14:09	1
Manganese	**4.0**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Nickel	**0.041**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 14:09	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:09	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:16	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:55	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**B**	0.018	0.0069	mg/Kg	☼	11/14/12 18:00	11/15/12 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.72**		0.200	0.200	SU			11/08/12 17:25	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011-054 TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 1 of 2

Lab Job No.: 500-52033

Sample Temp: 1.6, 1.4, 2.1

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.
3-G01, 20-G01 will not be sampled.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals (Inorg)	TCLP/*SPLP Metals (Inorg)	pH	% Solids	Waste Characterization					Comments
1	2169-3-B02	11/5/12	8:20	S	X	X					X	X	X	X						0-2'
2	2169-3-B01-1		8:30		X	X					X	X	X	X						0-6'
3	2169-3-B01-2		8:40		X	X					X	X	X	X						6-12'
4	2169-2-B01		9:30		X	X					X	X	X	X						0-6'
5	2169-2-B02		9:40		X	X					X	X	X	X						~~0-6'~~ 0-6'
6	2169-8-B01-1		10:15		X	X					X	X	X	X						0-6'
7	2169-8-B01-2		10:20		X	X					X	X	X	X						6'-12'
8	2169-8-B02		10:25		X	X					X	X	X	X						0'-2'
9	2169-8-B03-1		11:25		X	X					X	X	X	X						0-6'
10	2169-8-B03-2		11:30		X	X					X	X	X	X						6-12'
11	2169-8-B03-1DUP		11:35		X	X					X	X	X	X						0-6'
12	2169-20-B02		11:50		X	X					X	X	X	X						0'-2'

Relinquished by:	Date/Time 11/5/12 3:30pm	Received by:	Date/Time 11-5-12/1570
Relinquished by:	Date/Time 11-5-12/1612	Received by:	Date/Time 11/6/12 0800
Relinquished by:	Date/Time	Received by:	Date/Time

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011- 054 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** SR/CM/MW

COC No.: 2 of 2

Lab Job No.: 500-52033

Sample Temp: 1.6/1.4/2.1

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/*SPLP Metals / Inorg	pH	% Solids	Waste Characterization					Comments
13	2169-20-B01-1	11/5/12	12:50	S	X	X					X	X	X	X						0'-6'
14	2169-20-B01-2		12:55	S	X	X					X	X	X	X						6'-12'
15	2169-8-G01		10:30	W	X	X					X		X							1.77'
16	2169-30-B01-1		1:35	S	X	X					X	X	X	X						0-6'
17	2169-30-B01-2		1:40	S	X	X					X	X	X	X						6-12'
18	2169-30-B03-1		2:10	S	X	X					X	X	X	X						0-6
19	2169-30-B03-2		2:15	S	X	X					X	X	X	X						6-12
20	2169-30-B03-DUP		2:20	S	X	X					X	X	X	X						0-6
21	2169-30-B04-1		2:30	S	X	X					X	X	X	X						0-6'
22	2169-30-B04-2		2:35	S	X	X					X	X	X	X						6-12'
	~~2169-30-B05~~		~~2:40~~																	~~0-6~~

	Date/Time		Date/Time
Relinquished by:	11/5/12 3:30	Received by:	11-5-12 1530
Relinquished by:	11-5-12 1162	Received by:	11/6/12 0800
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1700 Block of Sauk Trail Road (South Side of Sauk Trail Road between Cornell and Prairie Avenues)

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48729 (Decimal Degrees) Longitude: -87.57547 (-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: FAP 332 (IL 394)

Latitude: 41.48729 Longitude: -87.57547

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 2168-21-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2169-21. SEE FIGURE 2 AND TABLE 5e OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID: 500-52069-1

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:

8/5/14
Date:

P.E. or L.P.G. Seal:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-21
Vacant Land

Sample ID	2169-21-B01	[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)	0-2						
Sample Date	11/5/2012						
PID	0						
Sample pH	8.04						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52069-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/20/2012 4:49:37 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Client Sample ID: 2169-21-B01
Date Collected: 11/06/12 07:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-8
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Methylene Chloride	**0.0092**		0.0051	0.0014	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/06/12 07:30	11/09/12 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*76 - 120*	*11/06/12 07:30*	*11/09/12 18:14*	*1*
Dibromofluoromethane	*98*		*73 - 122*	*11/06/12 07:30*	*11/09/12 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 123*	*11/06/12 07:30*	*11/09/12 18:14*	*1*
Toluene-d8 (Surr)	*107*		*72 - 122*	*11/06/12 07:30*	*11/09/12 18:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-21-B01
Date Collected: 11/06/12 07:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-8
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.059	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Phenanthrene	**0.031**	**J**	0.039	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Fluoranthene	**0.051**		0.039	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Pyrene	**0.036**	**J**	0.039	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Benzo[a]anthracene	**0.019**	**J**	0.039	0.0081	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Chrysene	**0.027**	**J**	0.039	0.0088	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1

Client Sample ID: 2169-21-B01
Date Collected: 11/06/12 07:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-8
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Benzo[b]fluoranthene	**0.039**		0.039	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Benzo[k]fluoranthene	**0.017**	**J**	0.039	0.0093	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Benzo[a]pyrene	**0.026**	**J**	0.039	0.0071	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Indeno[1,2,3-cd]pyrene	**0.019**	**J**	0.039	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
Benzo[g,h,i]perylene	**0.025**	**J**	0.039	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/14/12 17:51	11/19/12 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*53*		*30 - 110*	*11/14/12 17:51*	*11/19/12 16:28*	*1*
Phenol-d5	*59*		*31 - 110*	*11/14/12 17:51*	*11/19/12 16:28*	*1*
Nitrobenzene-d5	*48*		*30 - 115*	*11/14/12 17:51*	*11/19/12 16:28*	*1*
2-Fluorobiphenyl	*57*		*30 - 119*	*11/14/12 17:51*	*11/19/12 16:28*	*1*
2,4,6-Tribromophenol	*102*		*35 - 137*	*11/14/12 17:51*	*11/19/12 16:28*	*1*
Terphenyl-d14	*69*		*36 - 134*	*11/14/12 17:51*	*11/19/12 16:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Arsenic	**6.4**		0.55	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Barium	**100**	**B**	0.55	0.066	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Beryllium	**0.60**		0.22	0.016	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Boron	**2.7**	**J**	2.8	0.51	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Calcium	**3700**	**B**	11	1.9	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Chromium	**15**		0.55	0.092	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Cobalt	**10**		0.28	0.029	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Copper	**15**		0.55	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Iron	**21000**		11	4.8	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Lead	**33**	**B**	0.28	0.095	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Magnesium	**2800**	**B**	5.5	1.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Manganese	**900**		5.5	0.78	mg/Kg	☼	11/07/12 16:30	11/15/12 02:25	10
Nickel	**14**		0.55	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Potassium	**1400**		28	3.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Selenium	**0.40**	**J**	0.55	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Sodium	**550**	**B**	55	10	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Thallium	**0.22**	**J**	0.55	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Vanadium	**22**		0.28	0.042	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1
Zinc	**58**		1.1	0.38	mg/Kg	☼	11/07/12 16:30	11/13/12 23:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.26**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 12:02	1
Boron	**0.093**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 12:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 12:02	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-21-B01
Date Collected: 11/06/12 07:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 12:02	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Iron	**0.54**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 12:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 12:02	1
Manganese	**0.064**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Nickel	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 12:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 12:02	1
Zinc	**0.038**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/13/12 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:38	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:44	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.018	0.0068	mg/Kg	☼	11/15/12 16:00	11/16/12 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.04**		0.200	0.200	SU			11/13/12 09:13	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011- 054 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** SR / CM / MN	COC No.: 1 of ~~3~~ 4 Lab Job No.: 500-52069 Sample Temp: (3.9) (3.2)

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/*SPLP Metals	pH	% Solids	Waste Characterization					Comments
1	2169-30-B05	11/5/12	~~4:30~~ 3:30	S	X	X					X	X	X	X						0-6'
2	2169-30-B02		4:10	S																0-6'
3	2169-28-B01		4:15	S																0-2'
4	2169-28-B02		4:20	S																0-2'
5	2169-28-B03		4:25	S																0-2'
6	2169-28-B04		4:35	S																0-2'
7	2169-28-B05		4:40	S																0-2'
053 8 ~~8~~ 12	2169-21-B01	11/6/12	7:30	S																0-2'
~~9~~	2034A-12-B08-1		8:30																	0-4.5'
~~10~~	2034A-12-B08-2		8:35																	4.5-9'
~~11~~	2034A-12-B07-1		8:40																	0-4.5'
~~12~~	2034A-12-B07-2		8:45																	4.5-9'

	Date/Time		Date/Time
Relinquished by:	11/6/12 15:18	Received by:	11/6/12 1530
Relinquished by:	11/6/12 1630	Received by:	11/7/12 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

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

1701 Sauk Trail Road

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48753 (Decimal Degrees) Longitude: -87.57541 (-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: FAP 332 (IL 394)

Latitude: 41.48753 Longitude: -87.57541

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 2169-28-B01 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE 2169-28. SEE FIGURE 2 AND TABLE 5f OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID: 500-52069-1

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:

8/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-28
Ace Hardware

Sample ID	2169-28-B01	2169-28-B02	2169-28-B03	2169-28-B04	2169-28-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)	0-2	0-2	0-2	0-2	0-2						
Sample Date	11/5/2012	11/5/2012	11/5/2012	11/5/2012	11/5/2012						
PID	0	0	0	0	0						
Sample pH	7.86	7.87	8.37	8.41	8.77						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52069-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/20/2012 4:49:37 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Client Sample ID: 2169-28-B01
Date Collected: 11/05/12 16:15
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-3
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.011**		0.0049	0.0021	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
2-Butanone (MEK)	**0.0030**	**J**	0.0049	0.0018	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/05/12 16:15	11/09/12 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 120*	*11/05/12 16:15*	*11/09/12 16:18*	*1*
Dibromofluoromethane	*92*		*73 - 122*	*11/05/12 16:15*	*11/09/12 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 123*	*11/05/12 16:15*	*11/09/12 16:18*	*1*
Toluene-d8 (Surr)	*108*		*72 - 122*	*11/05/12 16:15*	*11/09/12 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B01
Date Collected: 11/05/12 16:15
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-3
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Fluoranthene	**0.031**	**J**	0.040	0.017	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Pyrene	**0.023**	**J**	0.040	0.015	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Chrysene	**0.011**	**J**	0.040	0.0091	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1

Client Sample ID: 2169-28-B01
Date Collected: 11/05/12 16:15
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-3
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Benzo[b]fluoranthene	**0.018**	**J**	0.040	0.0078	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Benzo[a]pyrene	**0.011**	**J**	0.040	0.0074	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.040	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/14/12 17:51	11/19/12 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*59*		*30 - 110*	*11/14/12 17:51*	*11/19/12 14:13*	*1*
Phenol-d5	*61*		*31 - 110*	*11/14/12 17:51*	*11/19/12 14:13*	*1*
Nitrobenzene-d5	*50*		*30 - 115*	*11/14/12 17:51*	*11/19/12 14:13*	*1*
2-Fluorobiphenyl	*56*		*30 - 119*	*11/14/12 17:51*	*11/19/12 14:13*	*1*
2,4,6-Tribromophenol	*93*		*35 - 137*	*11/14/12 17:51*	*11/19/12 14:13*	*1*
Terphenyl-d14	*62*		*36 - 134*	*11/14/12 17:51*	*11/19/12 14:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Arsenic	**5.7**		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Barium	**100**	**B**	0.60	0.071	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Beryllium	**0.99**		0.24	0.018	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Boron	**4.7**		3.0	0.56	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Cadmium	**0.052**	**J**	0.12	0.030	mg/Kg	☼	11/07/12 16:30	11/15/12 02:11	1
Calcium	**2700**	**B**	12	2.1	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Chromium	**24**		0.60	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Cobalt	**11**		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Copper	**18**		0.60	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Iron	**24000**		12	5.2	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Lead	**11**	**B**	0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Magnesium	**5300**	**B**	6.0	1.2	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Manganese	**260**		0.60	0.085	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Nickel	**33**		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Potassium	**1800**		30	3.4	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Sodium	**520**	**B**	60	11	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Vanadium	**24**		0.30	0.046	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1
Zinc	**42**		1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/13/12 22:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.39**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:36	1
Boron	**0.096**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B01
Date Collected: 11/05/12 16:15
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Cobalt	**0.022**	**J**	0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:36	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Iron	**0.76**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:36	1
Lead	**0.010**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:36	1
Manganese	**4.2**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:36	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:36	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:32	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:32	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020	0.0076	mg/Kg	☼	11/15/12 16:00	11/16/12 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.86**		0.200	0.200	SU			11/13/12 08:56	1

Client Sample ID: 2169-28-B02
Date Collected: 11/05/12 16:20
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-4
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0050	0.0022	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
2-Butanone (MEK)	0.0033	J	0.0050	0.0018	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.00077	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/05/12 16:20	11/09/12 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*	*11/05/12 16:20*	*11/09/12 16:41*	*1*
Dibromofluoromethane	*92*		*73 - 122*	*11/05/12 16:20*	*11/09/12 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 123*	*11/05/12 16:20*	*11/09/12 16:41*	*1*
Toluene-d8 (Surr)	*107*		*72 - 122*	*11/05/12 16:20*	*11/09/12 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B02
Date Collected: 11/05/12 16:20
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-4
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Phenanthrene	**0.026**	**J**	0.041	0.017	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Fluoranthene	**0.053**		0.041	0.017	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Pyrene	**0.044**		0.041	0.015	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Benzo[a]anthracene	**0.025**	**J**	0.041	0.0086	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Chrysene	**0.027**	**J**	0.041	0.0093	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1

Client Sample ID: 2169-28-B02
Date Collected: 11/05/12 16:20
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-4
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Benzo[b]fluoranthene	**0.029**	**J**	0.041	0.0080	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Benzo[k]fluoranthene	**0.020**	**J**	0.041	0.0098	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Benzo[a]pyrene	**0.022**	**J**	0.041	0.0075	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Indeno[1,2,3-cd]pyrene	**0.031**	**J**	0.041	0.014	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
Benzo[g,h,i]perylene	**0.039**	**J**	0.041	0.014	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	11/14/12 17:51	11/20/12 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*46*		*30 - 110*	*11/14/12 17:51*	*11/20/12 14:31*	*1*
Phenol-d5	*56*		*31 - 110*	*11/14/12 17:51*	*11/20/12 14:31*	*1*
Nitrobenzene-d5	*52*		*30 - 115*	*11/14/12 17:51*	*11/20/12 14:31*	*1*
2-Fluorobiphenyl	*58*		*30 - 119*	*11/14/12 17:51*	*11/20/12 14:31*	*1*
2,4,6-Tribromophenol	*72*		*35 - 137*	*11/14/12 17:51*	*11/20/12 14:31*	*1*
Terphenyl-d14	*65*		*36 - 134*	*11/14/12 17:51*	*11/20/12 14:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Arsenic	**6.5**		0.62	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Barium	**91**	**B**	0.62	0.074	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Beryllium	**0.87**		0.25	0.018	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Boron	**4.1**		3.1	0.58	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Cadmium	<0.12		0.12	0.031	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Calcium	**7700**	**B**	12	2.2	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Chromium	**21**		0.62	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Cobalt	**15**		0.31	0.033	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Copper	**17**		0.62	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Iron	**22000**		12	5.4	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Lead	**28**	**B**	0.31	0.11	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Magnesium	**6900**	**B**	6.2	1.2	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Manganese	**280**		0.62	0.088	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Nickel	**22**		0.62	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Potassium	**1700**		31	3.5	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Selenium	**0.47**	**J**	0.62	0.18	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Silver	<0.31		0.31	0.038	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Sodium	**790**	**B**	62	11	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Thallium	**0.24**	**J**	0.62	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Vanadium	**26**		0.31	0.047	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1
Zinc	**55**		1.2	0.43	mg/Kg	☼	11/07/12 16:30	11/13/12 23:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.65**		0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:41	1
Boron	**0.14**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:41	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B02
Date Collected: 11/05/12 16:20
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Cobalt	**0.029**		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:41	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Iron	**0.20**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:41	1
Lead	**0.025**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:41	1
Manganese	**6.0**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:41	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:41	1
Zinc	**0.057**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:33	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.020	0.0075	mg/Kg	☼	11/15/12 16:00	11/16/12 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.87**		0.200	0.200	SU			11/13/12 08:59	1

Client Sample ID: 2169-28-B03
Date Collected: 11/05/12 16:25
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-5
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.018**		0.0050	0.0022	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
2-Butanone (MEK)	**0.0037**	**J**	0.0050	0.0018	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/05/12 16:25	11/09/12 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*	*11/05/12 16:25*	*11/09/12 17:04*	*1*
Dibromofluoromethane	*94*		*73 - 122*	*11/05/12 16:25*	*11/09/12 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 123*	*11/05/12 16:25*	*11/09/12 17:04*	*1*
Toluene-d8 (Surr)	*108*		*72 - 122*	*11/05/12 16:25*	*11/09/12 17:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B03
Date Collected: 11/05/12 16:25
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-5
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Naphthalene	**0.012**	**J**	0.041	0.0079	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Phenanthrene	**0.032**	**J**	0.041	0.017	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Fluoranthene	**0.049**		0.041	0.017	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Pyrene	**0.037**	**J**	0.041	0.015	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Benzo[a]anthracene	**0.011**	**J**	0.041	0.0086	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Chrysene	**0.022**	**J**	0.041	0.0092	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1

Client Sample ID: 2169-28-B03
Date Collected: 11/05/12 16:25
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-5
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Di-n-octyl phthalate	**0.099**	**J**	0.21	0.083	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Benzo[b]fluoranthene	**0.023**	**J**	0.041	0.0079	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Benzo[k]fluoranthene	**0.010**	**J**	0.041	0.0097	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Benzo[a]pyrene	**0.025**	**J**	0.041	0.0074	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.041	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	11/14/12 17:51	11/19/12 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*63*		*30 - 110*	*11/14/12 17:51*	*11/19/12 15:30*	*1*
Phenol-d5	*72*		*31 - 110*	*11/14/12 17:51*	*11/19/12 15:30*	*1*
Nitrobenzene-d5	*61*		*30 - 115*	*11/14/12 17:51*	*11/19/12 15:30*	*1*
2-Fluorobiphenyl	*71*		*30 - 119*	*11/14/12 17:51*	*11/19/12 15:30*	*1*
2,4,6-Tribromophenol	*108*		*35 - 137*	*11/14/12 17:51*	*11/19/12 15:30*	*1*
Terphenyl-d14	*71*		*36 - 134*	*11/14/12 17:51*	*11/19/12 15:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Arsenic	**7.0**		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Barium	**100**	**B**	0.59	0.070	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Beryllium	**1.1**		0.24	0.017	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Boron	**4.4**		3.0	0.55	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Cadmium	**0.054**	**J**	0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/15/12 02:16	1
Calcium	**3800**	**B**	12	2.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Chromium	**25**		0.59	0.099	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Cobalt	**15**		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Copper	**23**		0.59	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Iron	**27000**		12	5.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Lead	**13**	**B**	0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Magnesium	**6200**	**B**	5.9	1.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Manganese	**260**		0.59	0.083	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Nickel	**33**		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Potassium	**2000**		30	3.3	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Selenium	**0.17**	**J**	0.59	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Sodium	**1600**	**B**	59	11	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Thallium	**0.25**	**J**	0.59	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Vanadium	**24**		0.30	0.045	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1
Zinc	**44**		1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/13/12 23:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.73**		0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:47	1
Boron	**0.13**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B03
Date Collected: 11/05/12 16:25
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Cobalt	**0.025**		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:47	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Iron	**0.96**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:47	1
Lead	**0.012**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:47	1
Manganese	**4.4**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Nickel	**0.027**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:47	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:34	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:35	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.056**		0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.37**		0.200	0.200	SU			11/13/12 09:03	1

Client Sample ID: 2169-28-B04
Date Collected: 11/05/12 16:35
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-6
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0047	0.0020	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
2-Butanone (MEK)	0.0033	J	0.0047	0.0017	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/05/12 16:35	11/09/12 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*76 - 120*	*11/05/12 16:35*	*11/09/12 17:27*	*1*
Dibromofluoromethane	*92*		*73 - 122*	*11/05/12 16:35*	*11/09/12 17:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 123*	*11/05/12 16:35*	*11/09/12 17:27*	*1*
Toluene-d8 (Surr)	*110*		*72 - 122*	*11/05/12 16:35*	*11/09/12 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B04
Date Collected: 11/05/12 16:35
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-6
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Phenanthrene	**0.021**	**J**	0.040	0.017	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Fluoranthene	**0.032**	**J**	0.040	0.016	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Pyrene	**0.029**	**J**	0.040	0.014	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Benzo[a]anthracene	**0.015**	**J**	0.040	0.0083	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Chrysene	**0.020**	**J**	0.040	0.0090	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1

Client Sample ID: 2169-28-B04
Date Collected: 11/05/12 16:35
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-6
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Benzo[b]fluoranthene	**0.022**	**J**	0.040	0.0077	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Benzo[k]fluoranthene	**0.013**	**J**	0.040	0.0095	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Benzo[a]pyrene	**0.016**	**J**	0.040	0.0073	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.040	0.013	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/14/12 17:51	11/20/12 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*52*		*30 - 110*	*11/14/12 17:51*	*11/20/12 14:53*	*1*
Phenol-d5	*64*		*31 - 110*	*11/14/12 17:51*	*11/20/12 14:53*	*1*
Nitrobenzene-d5	*59*		*30 - 115*	*11/14/12 17:51*	*11/20/12 14:53*	*1*
2-Fluorobiphenyl	*68*		*30 - 119*	*11/14/12 17:51*	*11/20/12 14:53*	*1*
2,4,6-Tribromophenol	*84*		*35 - 137*	*11/14/12 17:51*	*11/20/12 14:53*	*1*
Terphenyl-d14	*65*		*36 - 134*	*11/14/12 17:51*	*11/20/12 14:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Arsenic	**7.7**		0.62	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Barium	**100**	**B**	0.62	0.074	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Beryllium	**1.1**		0.25	0.018	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Boron	**3.7**		3.1	0.58	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Cadmium	**0.064**	**J**	0.12	0.031	mg/Kg	☼	11/07/12 16:30	11/15/12 02:20	1
Calcium	**5700**	**B**	12	2.2	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Chromium	**27**		0.62	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Cobalt	**16**		0.31	0.033	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Copper	**23**		0.62	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Iron	**26000**		12	5.4	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Lead	**16**	**B**	0.31	0.11	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Magnesium	**7100**	**B**	6.2	1.2	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Manganese	**300**		0.62	0.088	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Nickel	**34**		0.62	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Potassium	**1900**		31	3.5	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Selenium	<0.62		0.62	0.18	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Sodium	**1800**	**B**	62	11	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Thallium	**0.28**	**J**	0.62	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Vanadium	**25**		0.31	0.047	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1
Zinc	**46**		1.2	0.43	mg/Kg	☼	11/07/12 16:30	11/13/12 23:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.67**		0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:52	1
Boron	**0.12**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B04
Date Collected: 11/05/12 16:35
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Cobalt	**0.037**		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:52	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Iron	**2.3**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:52	1
Lead	**0.016**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:52	1
Manganese	**5.9**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:52	1
Zinc	**0.030**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:35	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:37	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.41**		0.200	0.200	SU			11/13/12 09:06	1

Client Sample ID: 2169-28-B05
Date Collected: 11/05/12 16:40
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-7
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0045	0.0019	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/05/12 16:40	11/09/12 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*76 - 120*	*11/05/12 16:40*	*11/09/12 17:51*	*1*
Dibromofluoromethane	*94*		*73 - 122*	*11/05/12 16:40*	*11/09/12 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 123*	*11/05/12 16:40*	*11/09/12 17:51*	*1*
Toluene-d8 (Surr)	*106*		*72 - 122*	*11/05/12 16:40*	*11/09/12 17:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B05
Date Collected: 11/05/12 16:40
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-7
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1

Client Sample ID: 2169-28-B05
Date Collected: 11/05/12 16:40
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-7
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/14/12 17:51	11/19/12 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*58*		*30 - 110*	*11/14/12 17:51*	*11/19/12 16:09*	*1*
Phenol-d5	*64*		*31 - 110*	*11/14/12 17:51*	*11/19/12 16:09*	*1*
Nitrobenzene-d5	*55*		*30 - 115*	*11/14/12 17:51*	*11/19/12 16:09*	*1*
2-Fluorobiphenyl	*57*		*30 - 119*	*11/14/12 17:51*	*11/19/12 16:09*	*1*
2,4,6-Tribromophenol	*99*		*35 - 137*	*11/14/12 17:51*	*11/19/12 16:09*	*1*
Terphenyl-d14	*63*		*36 - 134*	*11/14/12 17:51*	*11/19/12 16:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Arsenic	**4.6**		0.54	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Barium	**48**	**B**	0.54	0.065	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Beryllium	**0.63**		0.22	0.016	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Boron	**5.9**		2.7	0.51	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Cadmium	**0.077**	**J**	0.11	0.027	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Calcium	**48000**	**B**	11	1.9	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Chromium	**18**		0.54	0.091	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Cobalt	**8.0**		0.27	0.029	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Copper	**20**		0.54	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Iron	**18000**		11	4.7	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Lead	**8.6**	**B**	0.27	0.094	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Magnesium	**25000**	**B**	5.4	1.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Manganese	**240**		0.54	0.077	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Nickel	**23**		0.54	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Potassium	**1800**		27	3.1	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Sodium	**1500**	**B**	54	10	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Thallium	**0.18**	**J**	0.54	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Vanadium	**18**		0.27	0.041	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1
Zinc	**36**		1.1	0.37	mg/Kg	☼	11/07/12 16:30	11/13/12 23:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.62**		0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:57	1
Boron	**0.079**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:57	1
Cadmium	**0.0035**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-28-B05
Date Collected: 11/05/12 16:40
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Cobalt	**0.10**		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:57	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Iron	**2.2**		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:57	1
Lead	**0.015**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:57	1
Manganese	**7.5**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Nickel	**0.068**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Selenium	**0.013**	**J**	0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:57	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:57	1
Zinc	**0.021**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:37	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:39	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.77**		0.200	0.200	SU			11/13/12 09:09	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011- 054 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** SR / CM / MN	COC No.: 1 of ~~3~~ 4 Lab Job No.: 500-52069 Sample Temp: (3.9) (3.2)

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/*SPLP Metals	pH	% Solids	Waste Characterization					Comments
1	2169-30-B05	11/5/12	~~4:30~~ 3:30	S	X	X					X	X	X	X						0-6'
2	2169-30-B02		4:10	S																0-6'
3	2169-28-B01		4:15	S																0-2'
4	2169-28-B02		4:20	S																0-2'
5	2169-28-B03		4:25	S																0-2'
6	2169-28-B04		4:35	S																0-2'
7	2169-28-B05		4:40	S																0-2'
053 8 ~~8~~ 12	2169-21-B01	11/6/12	7:30	S																0-2'
~~9~~	2034A-12-B08-1		8:30																	0-4.5'
~~10~~	2034A-12-B08-2		8:35																	4.5-9'
~~11~~	2034A-12-B07-1		8:40																	0-4.5'
~~12~~	2034A-12-B07-2		8:45																	4.5-9'

	Date/Time		Date/Time
Relinquished by:	11/6/12 15:18	Received by:	11/6/12 1530
Relinquished by:	11/6/12 1630	Received by:	11/7/12 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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: FAP 332 (IL 394) Office Phone Number, if available: _____

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

1600 Block of Sauk Trail Road (Northeast Corner of Intersection of I-394 and Sauk Trail Road)

City: Sauk Village State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.48750 (Decimal Degrees) Longitude: -87.57716 (-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: FAP 332 (IL 394)

Latitude: 41.48750 Longitude: -87.57716

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 2169-30-B01, -B02, -B04 AND -B05 WERE SAMPLED ADJACENT TO ISGS SITE 2169-30. SEE FIGURE 2 AND TABLE 5g OF 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]:

TEST AMERICA ANALYTICAL REPORT JOB ID NUMBERS: 500-52033-1 AND 500-52069-1

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:

8/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS
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.

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2169-30
St. James Cemetery

Sample ID	2169-30-B01-1	2169-30-B01-2	2169-30-B02	2169-30-B04-1	2169-30-B04-2	2169-30-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)	0-6	6-12	0-6	0-6	6-12	0-6						
Sample Date	11/5/2012	11/5/2012	11/5/2012	11/5/2012	11/5/2012	11/5/2012						
PID	0	0	0	0	0	0						
Sample pH	8.53	8.61	8.62	7.92	7.66	8.8						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52033-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/26/2012 8:40:36 AM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 2169-30-B01-1
Date Collected: 11/05/12 13:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-16
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Methylene Chloride	**0.0040**	**J**	0.0047	0.0013	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	11/05/12 13:35	11/08/12 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*76 - 120*	*11/05/12 13:35*	*11/08/12 17:57*	*1*
Dibromofluoromethane	*96*		*73 - 122*	*11/05/12 13:35*	*11/08/12 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*74 - 123*	*11/05/12 13:35*	*11/08/12 17:57*	*1*
Toluene-d8 (Surr)	*95*		*72 - 122*	*11/05/12 13:35*	*11/08/12 17:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B01-1
Date Collected: 11/05/12 13:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-16
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1

Client Sample ID: 2169-30-B01-1
Date Collected: 11/05/12 13:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-16
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/15/12 07:26	11/23/12 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*30 - 110*	*11/15/12 07:26*	*11/23/12 16:39*	*1*
Phenol-d5	*71*		*31 - 110*	*11/15/12 07:26*	*11/23/12 16:39*	*1*
Nitrobenzene-d5	*71*		*30 - 115*	*11/15/12 07:26*	*11/23/12 16:39*	*1*
2-Fluorobiphenyl	*71*		*30 - 119*	*11/15/12 07:26*	*11/23/12 16:39*	*1*
2,4,6-Tribromophenol	*85*		*35 - 137*	*11/15/12 07:26*	*11/23/12 16:39*	*1*
Terphenyl-d14	*70*		*36 - 134*	*11/15/12 07:26*	*11/23/12 16:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Arsenic	**5.8**		0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Barium	**49**		0.56	0.067	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Beryllium	**0.66**		0.23	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Boron	**9.3**		2.8	0.53	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Cadmium	**0.50**		0.11	0.028	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Calcium	**48000**	**B**	11	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Chromium	**17**	**B**	0.56	0.094	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Cobalt	**9.9**		0.28	0.030	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Copper	**21**		0.56	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Iron	**18000**	**B**	11	4.9	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Lead	**32**	**B**	0.28	0.097	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Magnesium	**23000**	**B**	5.6	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Manganese	**380**	**B**	0.56	0.079	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Nickel	**27**	**B**	0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Potassium	**2400**		28	3.2	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Sodium	**2500**	**B**	56	10	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Thallium	**0.24**	**J**	0.56	0.14	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Vanadium	**19**		0.28	0.043	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1
Zinc	**43**	**B**	1.1	0.39	mg/Kg	☼	11/06/12 16:30	11/15/12 08:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.50**		0.50	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 14:30	1
Boron	**0.16**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 14:30	1
Cadmium	**0.0040**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 14:30	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B01-1
Date Collected: 11/05/12 13:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Cobalt	**0.041**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:30	1
Copper	**2.2**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 14:30	1
Lead	**0.26**		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 14:30	1
Manganese	**4.7**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Nickel	**0.051**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 14:30	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:30	1
Zinc	**0.12**		0.10	0.020	mg/L		11/12/12 16:00	11/15/12 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:17	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 09:56	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**	**B**	0.019	0.0071	mg/Kg	☼	11/14/12 18:00	11/15/12 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.53**		0.200	0.200	SU			11/08/12 17:29	1

Client Sample ID: 2169-30-B01-2
Date Collected: 11/05/12 13:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-17
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	11/05/12 13:40	11/08/12 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*	*11/05/12 13:40*	*11/08/12 18:20*	*1*
Dibromofluoromethane	*95*		*73 - 122*	*11/05/12 13:40*	*11/08/12 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*74 - 123*	*11/05/12 13:40*	*11/08/12 18:20*	*1*
Toluene-d8 (Surr)	*97*		*72 - 122*	*11/05/12 13:40*	*11/08/12 18:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B01-2
Date Collected: 11/05/12 13:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-17
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B01-2
Date Collected: 11/05/12 13:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-17
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Bis(2-ethylhexyl) phthalate	**0.14**	**J**	0.19	0.050	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/15/12 07:26	11/23/12 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*30 - 110*	*11/15/12 07:26*	*11/23/12 16:59*	*1*
Phenol-d5	*86*		*31 - 110*	*11/15/12 07:26*	*11/23/12 16:59*	*1*
Nitrobenzene-d5	*83*		*30 - 115*	*11/15/12 07:26*	*11/23/12 16:59*	*1*
2-Fluorobiphenyl	*85*		*30 - 119*	*11/15/12 07:26*	*11/23/12 16:59*	*1*
2,4,6-Tribromophenol	*104*		*35 - 137*	*11/15/12 07:26*	*11/23/12 16:59*	*1*
Terphenyl-d14	*78*		*36 - 134*	*11/15/12 07:26*	*11/23/12 16:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Arsenic	**5.6**		0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Barium	**34**		0.56	0.066	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Beryllium	**0.61**		0.22	0.016	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Boron	**8.8**		2.8	0.52	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Cadmium	**0.42**		0.11	0.028	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Calcium	**47000**	**B**	11	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Chromium	**16**	**B**	0.56	0.093	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Cobalt	**9.6**		0.28	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Copper	**16**		0.56	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Iron	**17000**	**B**	11	4.8	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Lead	**8.8**	**B**	0.28	0.096	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Magnesium	**22000**	**B**	5.6	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Manganese	**320**	**B**	0.56	0.078	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Nickel	**24**	**B**	0.56	0.12	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Potassium	**2300**		28	3.1	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Sodium	**1800**	**B**	56	10	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Thallium	**0.16**	**J**	0.56	0.14	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Vanadium	**17**		0.28	0.042	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1
Zinc	**37**	**B**	1.1	0.38	mg/Kg	☼	11/06/12 16:30	11/15/12 08:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.32**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/15/12 14:36	1
Boron	**0.14**	**J**	0.50	0.050	mg/L		11/12/12 16:00	11/15/12 14:36	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		11/12/12 16:00	11/15/12 14:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B01-2
Date Collected: 11/05/12 13:40
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Cobalt	**0.056**		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:36	1
Copper	**0.057**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/15/12 14:36	1
Lead	**0.014**		0.0075	0.0050	mg/L		11/12/12 16:00	11/15/12 14:36	1
Manganese	**4.4**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Nickel	**0.043**		0.025	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/15/12 14:36	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/15/12 14:36	1
Zinc	**0.062**	**J**	0.10	0.020	mg/L		11/12/12 16:00	11/15/12 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:02	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**	**B**	0.018	0.0068	mg/Kg	☼	11/14/12 18:00	11/15/12 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.61**		0.200	0.200	SU			11/08/12 17:32	1

Client Sample ID: 2169-30-B04-1
Date Collected: 11/05/12 14:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-21
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0032	J	0.0043	0.0019	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	11/05/12 14:30	11/09/12 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*76 - 120*	*11/05/12 14:30*	*11/09/12 11:45*	*1*
Dibromofluoromethane	*90*		*73 - 122*	*11/05/12 14:30*	*11/09/12 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 123*	*11/05/12 14:30*	*11/09/12 11:45*	*1*
Toluene-d8 (Surr)	*92*		*72 - 122*	*11/05/12 14:30*	*11/09/12 11:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B04-1
Date Collected: 11/05/12 14:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-21
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4-Dinitrophenol	<0.75	*	0.75	0.19	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.090	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1

Client Sample ID: 2169-30-B04-1
Date Collected: 11/05/12 14:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-21
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/13/12 17:52	11/23/12 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*51*		*30 - 110*	*11/13/12 17:52*	*11/23/12 18:21*	*1*
Phenol-d5	*59*		*31 - 110*	*11/13/12 17:52*	*11/23/12 18:21*	*1*
Nitrobenzene-d5	*60*		*30 - 115*	*11/13/12 17:52*	*11/23/12 18:21*	*1*
2-Fluorobiphenyl	*63*		*30 - 119*	*11/13/12 17:52*	*11/23/12 18:21*	*1*
2,4,6-Tribromophenol	*80*		*35 - 137*	*11/13/12 17:52*	*11/23/12 18:21*	*1*
Terphenyl-d14	*58*		*36 - 134*	*11/13/12 17:52*	*11/23/12 18:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Arsenic	**6.1**		0.58	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Barium	**69**		0.58	0.068	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Beryllium	**0.77**		0.23	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Boron	**8.0**		2.9	0.54	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Cadmium	**0.23**		0.12	0.028	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Calcium	**19000**	**B**	12	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Chromium	**20**		0.58	0.096	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Cobalt	**11**		0.29	0.030	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Copper	**20**		0.58	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Iron	**20000**		12	5.0	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Lead	**11**		0.29	0.099	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Magnesium	**16000**	**B**	5.8	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Manganese	**390**		0.58	0.081	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Nickel	**29**		0.58	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Potassium	**2200**		29	3.3	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Sodium	**2500**	**B**	58	11	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Thallium	**0.44**	**J**	0.58	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Vanadium	**22**		0.29	0.044	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1
Zinc	**55**		1.2	0.39	mg/Kg	☼	11/06/12 16:30	11/15/12 20:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.45**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:08	1
Boron	**0.082**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B04-1
Date Collected: 11/05/12 14:30
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Cobalt	**0.0072**	**J**	0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:08	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:08	1
Manganese	**1.9**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:08	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:08	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:28	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:25	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**	**B**	0.017	0.0066	mg/Kg	☼	11/14/12 18:00	11/15/12 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.92**		0.200	0.200	SU			11/07/12 09:38	1

Client Sample ID: 2169-30-B04-2
Date Collected: 11/05/12 14:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-22
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/05/12 14:35	11/09/12 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*	*11/05/12 14:35*	*11/09/12 12:08*	*1*
Dibromofluoromethane	*94*		*73 - 122*	*11/05/12 14:35*	*11/09/12 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 123*	*11/05/12 14:35*	*11/09/12 12:08*	*1*
Toluene-d8 (Surr)	*90*		*72 - 122*	*11/05/12 14:35*	*11/09/12 12:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B04-2
Date Collected: 11/05/12 14:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-22
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4-Dinitrophenol	<0.78	*	0.78	0.20	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.094	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Chrysene	**0.011**	**J**	0.038	0.0087	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1

Client Sample ID: 2169-30-B04-2
Date Collected: 11/05/12 14:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-22
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Benzo[b]fluoranthene	**0.011**	**J**	0.038	0.0075	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.038	0.013	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/13/12 17:52	11/23/12 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*56*		*30 - 110*	*11/13/12 17:52*	*11/23/12 18:41*	*1*
Phenol-d5	*65*		*31 - 110*	*11/13/12 17:52*	*11/23/12 18:41*	*1*
Nitrobenzene-d5	*67*		*30 - 115*	*11/13/12 17:52*	*11/23/12 18:41*	*1*
2-Fluorobiphenyl	*68*		*30 - 119*	*11/13/12 17:52*	*11/23/12 18:41*	*1*
2,4,6-Tribromophenol	*77*		*35 - 137*	*11/13/12 17:52*	*11/23/12 18:41*	*1*
Terphenyl-d14	*62*		*36 - 134*	*11/13/12 17:52*	*11/23/12 18:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Arsenic	**3.6**		0.58	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Barium	**39**		0.58	0.069	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Beryllium	**0.61**		0.23	0.017	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Boron	**11**		2.9	0.54	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Cadmium	**0.24**		0.12	0.029	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Calcium	**44000**	**B**	12	2.0	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Chromium	**16**		0.58	0.096	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Cobalt	**8.8**		0.29	0.030	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Copper	**15**		0.58	0.16	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Iron	**16000**		12	5.0	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Lead	**7.9**		0.29	0.099	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Magnesium	**22000**	**B**	5.8	1.1	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Manganese	**290**		0.58	0.081	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Nickel	**22**		0.58	0.13	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Potassium	**2700**		29	3.3	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Sodium	**870**	**B**	58	11	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Thallium	**0.44**	**J**	0.58	0.15	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Vanadium	**17**		0.29	0.044	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1
Zinc	**34**		1.2	0.40	mg/Kg	☼	11/06/12 16:30	11/15/12 21:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.25**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:21	1
Boron	**0.10**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Client Sample ID: 2169-30-B04-2
Date Collected: 11/05/12 14:35
Date Received: 11/06/12 08:00

Lab Sample ID: 500-52033-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:21	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:21	1
Manganese	**1.1**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Nickel	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:21	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:21	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:29	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:27	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020	0.0074	mg/Kg	☼	11/14/12 18:00	11/15/12 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.66**		0.200	0.200	SU			11/07/12 09:41	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52033-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011- 054 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** SR/CM/MW

COC No.: 2 of 2

Lab Job No.: 500-52033

Sample Temp: 1.6/1.4/2.1

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/*SPLP Metals / Inorg	pH	% Solids	Waste Characterization					Comments
13	2169-20-B01-1	11/5/12	12:50	S	X	X					X	X	X	X						0'-6'
14	2169-20-B01-2		12:55	S	X	X					X	X	X	X						6'-12'
15	2169-8-G01		10:30	W	X	X					X		X							1.77'
16	2169-30-B01-1		1:35	S	X	X					X	X	X	X						0-6'
17	2169-30-B01-2		1:40	S	X	X					X	X	X	X						6-12'
18	2169-30-B03-1		2:10	S	X	X					X	X	X	X						0-6
19	2169-30-B03-2		2:15	S	X	X					X	X	X	X						6-12
20	2169-30-B03-DUP		2:20	S	X	X					X	X	X	X						0-6
21	2169-30-B04-1		2:30	S	X	X					X	X	X	X						0-6'
22	2169-30-B04-2		2:35	S	X	X					X	X	X	X						6-12'
	~~2169-30-B05~~		~~2:40~~																	~~0-6~~

	Date/Time		Date/Time
Relinquished by:	11/5/12 3:30	Received by:	11-5-12 1530
Relinquished by:	11-5-12 1162	Received by:	11/6/12 0800
Relinquished by:	Date/Time	Received by:	Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-52069-1
Client Project/Site: IDOT - FAP 332 - WO 054

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
11/20/2012 4:49:37 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Client Sample ID: 2169-30-B05
Date Collected: 11/05/12 15:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-1
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/05/12 15:30	11/09/12 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*76 - 120*	*11/05/12 15:30*	*11/09/12 15:32*	*1*
Dibromofluoromethane	*95*		*73 - 122*	*11/05/12 15:30*	*11/09/12 15:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 123*	*11/05/12 15:30*	*11/09/12 15:32*	*1*
Toluene-d8 (Surr)	*107*		*72 - 122*	*11/05/12 15:30*	*11/09/12 15:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-30-B05
Date Collected: 11/05/12 15:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-1
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Pyrene	**0.014**	**J**	0.038	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1

Client Sample ID: 2169-30-B05
Date Collected: 11/05/12 15:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-1
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Benzo[b]fluoranthene	**0.019**	**J**	0.038	0.0074	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Benzo[k]fluoranthene	**0.0094**	**J**	0.038	0.0091	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Benzo[a]pyrene	**0.018**	**J**	0.038	0.0069	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Dibenz(a,h)anthracene	**0.018**	**J**	0.038	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/14/12 17:51	11/19/12 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*69*		*30 - 110*	*11/14/12 17:51*	*11/19/12 13:34*	*1*
Phenol-d5	*74*		*31 - 110*	*11/14/12 17:51*	*11/19/12 13:34*	*1*
Nitrobenzene-d5	*66*		*30 - 115*	*11/14/12 17:51*	*11/19/12 13:34*	*1*
2-Fluorobiphenyl	*67*		*30 - 119*	*11/14/12 17:51*	*11/19/12 13:34*	*1*
2,4,6-Tribromophenol	*96*		*35 - 137*	*11/14/12 17:51*	*11/19/12 13:34*	*1*
Terphenyl-d14	*69*		*36 - 134*	*11/14/12 17:51*	*11/19/12 13:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Arsenic	**6.0**		0.55	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Barium	**63**	**B**	0.55	0.066	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Beryllium	**0.69**		0.22	0.016	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Boron	**8.6**		2.8	0.52	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Cadmium	**0.31**		0.11	0.027	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Calcium	**45000**	**B**	11	2.0	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Chromium	**18**		0.55	0.092	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Cobalt	**9.4**		0.28	0.029	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Copper	**20**		0.55	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Iron	**18000**		11	4.8	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Lead	**88**	**B**	0.28	0.095	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Magnesium	**19000**	**B**	5.5	1.1	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Manganese	**370**		0.55	0.078	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Nickel	**25**		0.55	0.12	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Potassium	**2100**		28	3.1	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Sodium	**1200**	**B**	55	10	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Thallium	**0.30**	**J**	0.55	0.14	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Vanadium	**19**		0.28	0.042	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1
Zinc	**64**		1.1	0.38	mg/Kg	☼	11/07/12 16:30	11/13/12 22:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.49**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:26	1
Boron	**0.11**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:26	1
Cadmium	**0.0070**		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-30-B05
Date Collected: 11/05/12 15:30
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Cobalt	**0.062**		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:26	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:26	1
Lead	**0.21**		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:26	1
Manganese	**4.9**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Nickel	**0.055**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Selenium	<0.050		0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:26	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:26	1
Zinc	**0.11**		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:30	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:28	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0072	mg/Kg	☼	11/15/12 16:00	11/16/12 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.80**		0.200	0.200	SU			11/13/12 08:50	1

Client Sample ID: 2169-30-B02
Date Collected: 11/05/12 16:10
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-2
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/05/12 16:10	11/09/12 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*	*11/05/12 16:10*	*11/09/12 15:55*	*1*
Dibromofluoromethane	*95*		*73 - 122*	*11/05/12 16:10*	*11/09/12 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 123*	*11/05/12 16:10*	*11/09/12 15:55*	*1*
Toluene-d8 (Surr)	*106*		*72 - 122*	*11/05/12 16:10*	*11/09/12 15:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-30-B02
Date Collected: 11/05/12 16:10
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-2
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1

Client Sample ID: 2169-30-B02
Date Collected: 11/05/12 16:10
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-2
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/14/12 17:51	11/19/12 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*65*		*30 - 110*	*11/14/12 17:51*	*11/19/12 13:53*	*1*
Phenol-d5	*74*		*31 - 110*	*11/14/12 17:51*	*11/19/12 13:53*	*1*
Nitrobenzene-d5	*61*		*30 - 115*	*11/14/12 17:51*	*11/19/12 13:53*	*1*
2-Fluorobiphenyl	*72*		*30 - 119*	*11/14/12 17:51*	*11/19/12 13:53*	*1*
2,4,6-Tribromophenol	*114*		*35 - 137*	*11/14/12 17:51*	*11/19/12 13:53*	*1*
Terphenyl-d14	*74*		*36 - 134*	*11/14/12 17:51*	*11/19/12 13:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Arsenic	**6.0**		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Barium	**73**	**B**	0.58	0.069	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Beryllium	**0.72**		0.23	0.017	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Boron	**6.0**		2.9	0.54	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Calcium	**4400**	**B**	12	2.0	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Chromium	**18**		0.58	0.097	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Cobalt	**7.7**		0.29	0.030	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Copper	**18**		0.58	0.16	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Iron	**18000**		12	5.0	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Lead	**23**	**B**	0.29	0.10	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Magnesium	**3500**	**B**	5.8	1.1	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Manganese	**290**		0.58	0.082	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Nickel	**22**		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Potassium	**2000**		29	3.3	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Selenium	**0.55**	**J**	0.58	0.17	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Sodium	**590**	**B**	58	11	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Thallium	**0.23**	**J**	0.58	0.15	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Vanadium	**20**		0.29	0.044	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1
Zinc	**62**		1.2	0.40	mg/Kg	☼	11/07/12 16:30	11/13/12 22:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.13**	**J**	0.50	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		11/12/12 16:00	11/13/12 11:31	1
Boron	**0.099**	**J B**	0.50	0.050	mg/L		11/12/12 16:00	11/13/12 11:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/12 16:00	11/13/12 11:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Client Sample ID: 2169-30-B02
Date Collected: 11/05/12 16:10
Date Received: 11/06/12 15:30

Lab Sample ID: 500-52069-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:31	1
Copper	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Iron	<0.20		0.20	0.20	mg/L		11/12/12 16:00	11/13/12 11:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/12/12 16:00	11/13/12 11:31	1
Manganese	**0.036**		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Nickel	<0.025		0.025	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Selenium	**0.010**	**J**	0.050	0.010	mg/L		11/12/12 16:00	11/13/12 11:31	1
Silver	<0.025		0.025	0.0050	mg/L		11/12/12 16:00	11/13/12 11:31	1
Zinc	<0.10		0.10	0.020	mg/L		11/12/12 16:00	11/13/12 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/12/12 16:00	11/17/12 21:31	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/12/12 16:00	11/17/12 21:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.000020	mg/L		11/15/12 13:45	11/16/12 10:30	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.018	0.0068	mg/Kg	☼	11/15/12 16:00	11/16/12 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.62**		0.200	0.200	SU			11/13/12 08:53	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

Glossary

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

Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - FAP 332 - WO 054

TestAmerica Job ID: 500-52069-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL394 Project No.: IDOT2011- 054 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** SR / CM / MN	COC No.: 1 of ~~3~~ 4 Lab Job No.: 500-52069 Sample Temp: (3.9) (3.2)

Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/*SPLP Metals	pH	% Solids	Waste Characterization					Comments
1	2169-30-B05	11/5/12	~~4:30~~ 3:30	S	X	X					X	X	X	X						0-6'
2	2169-30-B02		4:10	S																0-6'
3	2169-28-B01		4:15	S																0-2'
4	2169-28-B02		4:20	S																0-2'
5	2169-28-B03		4:25	S																0-2'
6	2169-28-B04		4:35	S																0-2'
7	2169-28-B05		4:40	S																0-2'
053 8 ~~8~~ 12	2169-21-B01	11/6/12	7:30	S																0-2'
~~9~~	2034A-12-B08-1		8:30																	0-4.5'
~~10~~	2034A-12-B08-2		8:35																	4.5-9'
~~11~~	2034A-12-B07-1		8:40																	0-4.5'
~~12~~	2034A-12-B07-2		8:45																	4.5-9'

	Date/Time		Date/Time
Relinquished by:	11/6/12 15:18	Received by:	11/6/12 1530
Relinquished by:	11/6/12 1630	Received by:	11/7/12 0700
Relinquished by:	Date/Time	Received by:	Date/Time