5835 W. 74th Street
Indianapolis, IN 46278-1757

T (317) 876-0200

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January 16, 2017

Mr. Darrin Jolas
Director of Leasing & Development
Vermilion Development
401 North Franklin Street, Suite 4 South
Chicago, Illinois 60654

RE: Underground Storage Tank Investigation
Former Southside Lumber Property
408 South Washington Street
Kokomo, Indiana
SME Project No.: 075603.00

Dear Mr. Jolas:

SME has completed the underground storage tank (UST) Investigation at the former Southside Lumber property referenced above in Kokomo, Indiana. The enclosed report presents SME's interpretation of Site conditions at the time the investigation was completed based on field observations and laboratory supplied data.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, or if additional services are required please do not hesitate to contact the undersigned.

Very truly yours,

SME

Stephen P. Zins, PG
Senior Project Consultant

James Alvarez, PG
Senior Consultant

Figures
Figure 1 Property Location Map
Figure 2 Sampling and Excavation Locations

Tables:
Table 1: Soil Analytical Results

Attachments:
Attachment A Photographic Documentation
Attachment B Laboratory Data

Distribution: 1 Link via Newforma

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BACKGROUND & OBJECTIVE

In September 2014, as part of a Phase II Environmental Site Assessment (ESA), a geophysical survey was conducted on portions of the Southside Lumber and Cabot properties. A magnetic anomaly on the southwest corner of the Southside Lumber property indicated the possible presence of an underground storage tank (UST). The anomaly was present on a portion of the property where a former petroleum filling station had been reported. There have been no records provided indicating USTs had been removed from the site. Based on this information, SME conducted an investigation by exploratory excavation to identify the presence of a UST(s).

The objective of the completed scope of work was to determine if an UST is present, and obtain additional information regarding potential contamination resulting from the UST.

PHASE II ASSESSMENT SCOPE OF WORK

SME mobilized to the site with an excavation subcontractor to dig pits in the area of the geophysical anomaly. Prior to site mobilization, SME notified Indiana 811 to mark known public utility locations in the investigation area. Bloodhound Underground, a private utility location service, was contracted by SME to conduct an electromagnetic survey. The purpose of this survey was to identify and mark potential utilities and subsurface features in the area of planned excavations. Due to the thickness of concrete above the anomaly, an excavation was started approximately fifteen (15) feet south of the anomaly in an area covered with gravel. As the excavation neared the southern portion of the anomaly, a fill port was located. However, due to the frozen conditions at the time of the field activities and the thickness of the reinforced concrete, the excavation was limited to the southern end of the anomaly. Additionally, excavation north of the fill port would have required excavation of the property driveway. Therefore, excavation activities were ceased upon locating of the fill port. The size of the UST was not able to be determined due to Site limitations.

Following the discovery of the fill port, SME collected a soil sample from near the base and mid-point of the excavation at twelve (12) feet below ground surface (bgs) and six (6) feet bgs, respectively. The two (2) soil samples were analyzed for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), lead and lead scavengers, and naphthalenes following US EPA sampling and analysis protocol. Groundwater was not encountered during the excavation activities.

The excavation and sampling location are shown on Figure 2. Photographic documentation is included at Attachment A.

SAMPLE ANALYSIS

We submitted two (2) soil samples for chemical analysis of the following parameters: VOCs, PAHs, lead, lead scavengers and naphthalenes. The samples were submitted to Pace Analytical, Inc., which analyzed the samples using the reference methods listed below:

- VOCs in accordance with SW846 Method 8260,
- PAHs in accordance with SW 846 Method 8270, and
- Lead and lead scavengers in accordance with SW 846 Method 6010.

SAMPLE RESULTS

The surface and subsurface conditions encountered during excavation activities and the results of chemical analyses are described in the following subsections.

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SURFACE AND SUBSURFACE CONDITIONS

The surface of the Site consisted primarily of concrete near the southern edge of the anomaly with gravel and topsoil present south of the anomaly. Limited native soils were located beneath the surface. Fill materials consisting of gravel and brick fragments extended to the depth of the excavatio073648.01.04n, twelve (12) feet bgs. The native materials consisted of a reddish-brown sandy clay. Soil discoloration was observed near the UST, however, odors were not noted in the excavation.

Groundwater was not encountered during excavation activities.

RESULTS OF CHEMICAL ANALYSES

Results of chemical analyses performed on soil samples collected by SME are tabulated in Table 1. Soil chemical analyses were compared to the 2016 Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential, Commercial/Industrial, and Excavation Direct Contact Screening Levels and Soil Migration to Groundwater Screening Levels. No chemicals-of-concern were measured in soil samples that exceeded respective IDEM RCG Screening Levels. Laboratory analysis reports are included in Attachment B.

CONCLUSIONS & RECOMMENDATIONS

Excavation activities at the site indicated the presence of an UST. However, due to site conditions at the time of the field activities, excavation was limited to the southern portion of the anomaly. It was not possible to delineate the size of the UST nor determine the possibility of additional USTs at the Site. Two (2) soil samples were collected from the base and midpoint of the excavation at approximately twelve (12) and six (6) feet bgs. The sample results indicated no chemicals-of-concern exceeded the IDEM RCG Screening Levels. Based on these soil analytical results and the results collected during the 2014 Phase II ESA, it does appear that widespread impacts exist laterally proximate to the UST. SME recommends the UST(s) be properly closed in accordance with IDEM requirements during the proposed site development activities.

It should be noted, if the owner of Southside Lumber never used the UST(s) they may qualify as orphan tanks. Under the Indiana Brownfields Program, the Petroleum Orphan Sites Initiative (POSI) provides funding to assist with investigating and undertaking corrective action at brownfield sites contaminated with petroleum from a release from an UST for which there is no viable responsible party to conduct tank removal and cleanup. To facilitate redevelopment of such orphan properties, the Program will provide site assessment, UST removal, and remediation to close environmental conditions on a site under the Indiana Department of Environmental Management (IDEM)'s Remediation Closure Guide. This may be an option to pursue closure of the UST(s).

The conclusions in this report are based on visual observations and results of chemical analyses of samples collected from the specified areas of assessment only. Should additional surface, subsurface, or chemical data become available after the date of issue of this report, the conclusions contained in this report may require modification after we have reviewed the additional information. Our review of additional information would be conducted upon receipt of a request from the client.

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FIGURES

FIGURE 1 -PROPERTY LOCATION MAP

FIGURE 2 - SAMPLING AND ANOMALY LOCATIONS

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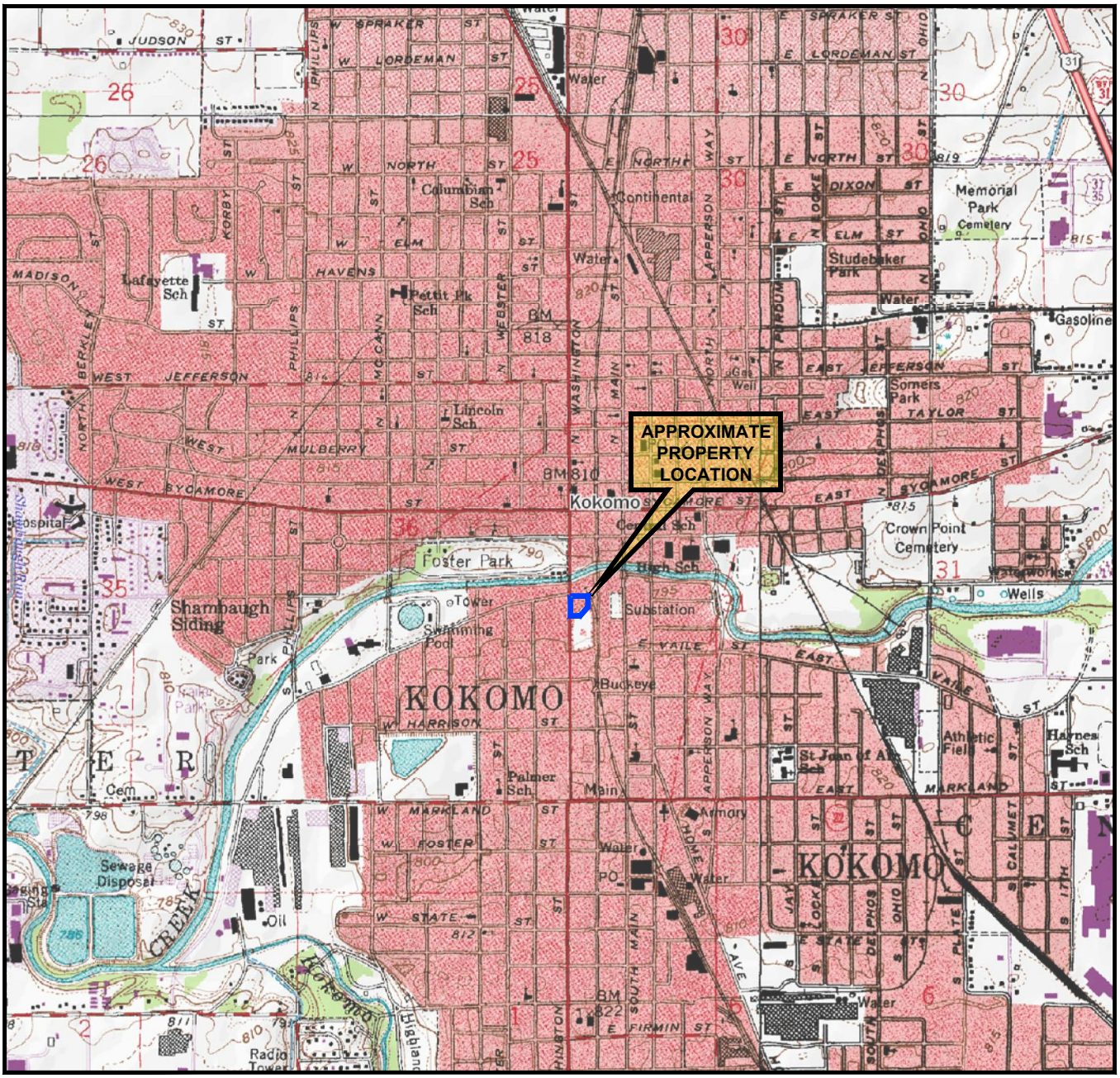

Base map obtained from ©DeLorme Topo North America™ 10.

0' 2000'

SCALE: 1" = 2000'

USGS QUADRANGLE(s) REFERENCED

KOKOMO WEST (IN) 1995
KOKOMO EAST (IN) 1994

NORTH

No.	Revision Date		
		Date	1-12-17
		Drawn By	JAB
		Designed By	SPZ
		Scale	1" = 2000'
		Project	075603.00

PROPERTY LOCATION MAP
FORMER SOUTHSIDE LUMBER
408 SOUTH WASHINGTON STREET
KOKOMO, INDIANA

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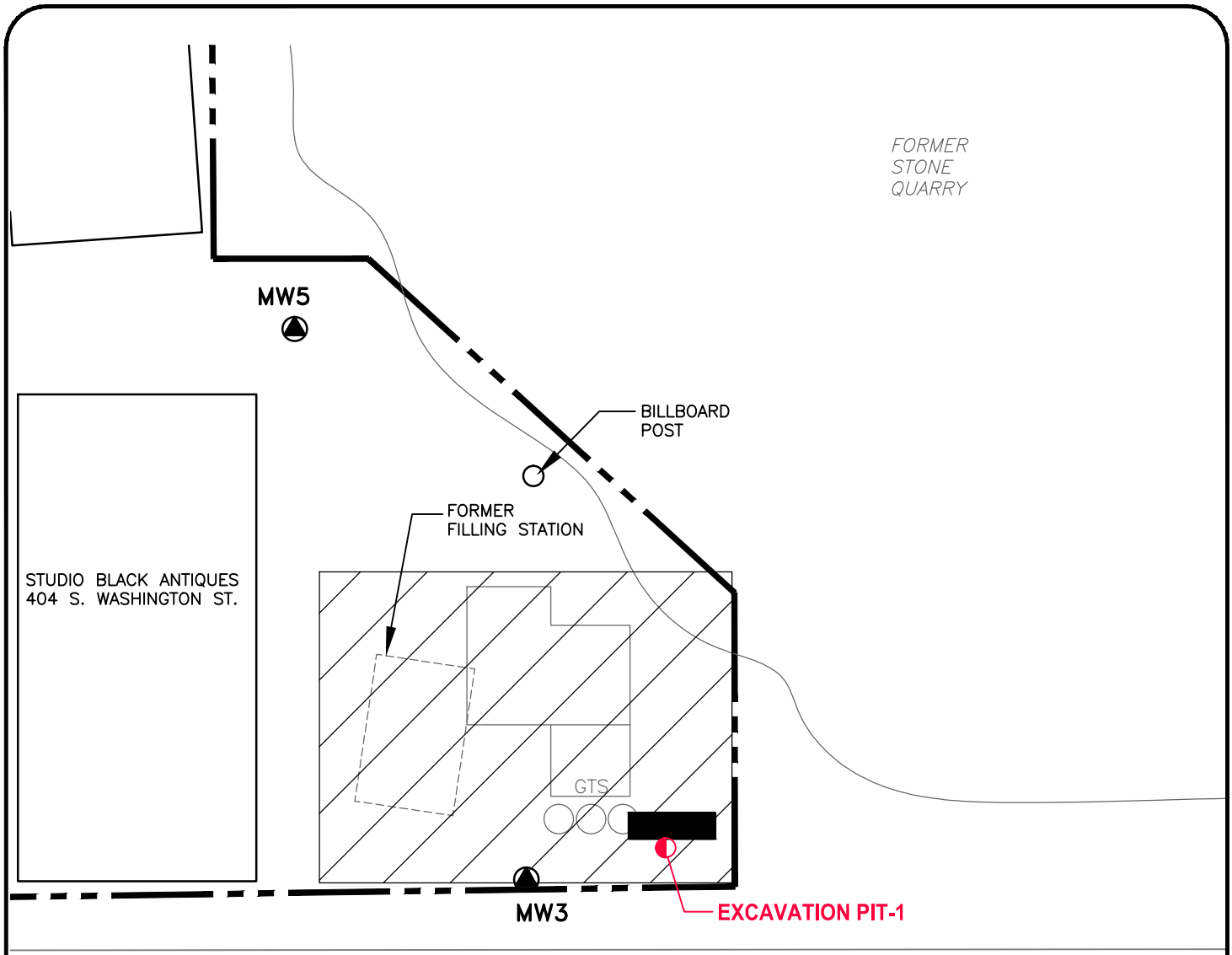
Figure No. 1

Jan 12, 2017 - 2:56pm - jblake \\Sme-inc\pz\WIP\075603.00\CAD\DWGS\Southside Lumber\rev0\075603.00-01.dwg



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	MONITORING WELL
GTS	GASOLINE TANKS
	GEOPHYSICAL SURVEY AREA
	APPROXIMATE LOCATION OF HISTORICAL FEATURES
	APPROXIMATE LOCATION OF EXCAVATION
	EXCAVATION SAMPLE LOCATION

NOTES:
1. FOR BASE DRAWING INFORMATION, SEE FIGURE 2 FROM PHASE I.
2. HISTORICAL FEATURES TAKEN FROM SANBORN FIRE INSURANCE MAPS FROM 1916, 1927, 1948, AND 1965.

NORTH

0' 30' 60'

GRAPHIC SCALE: 1" = 30'

No.	Revision Date		
		Date	1-12-17
		Drawn By	JAB
		Designed By	SPZ
		Scale	1" = 30'
		Project	075603.00

SAMPLE LOCATION DIAGRAM
FORMER SOUTHSIDE LUMBER
408 SOUTH WASHINGTON STREET
KOKOMO, INDIANA

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Figure No. 2

Jan 13, 2017 - 9:24am - jblake \\Sme-inc\pz\WIP\075603.00\CAD\DWGS\Southside Lumber\rev0\075603.00-SSL-SB2.dwg

TABLES

TABLE 1 –SOIL ANALYTICAL RESULTS

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TABLE 1
SOIL ANALYTICAL RESULTS
FORMER SOUTHSIDE LUMBER
408 SOUTH WASHINGTON STREET
KOKOMO, INDIANA

ANALYTE	CAS NUMBER	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg)[1]					CHEMICAL ANALYSES RESULTS (mg/kg)	
		DIRECT CONTACT RESIDENTIAL	DIRECT CONTACT COMMERCIAL / INDUSTRIAL	DIRECT CONTACT EXCAVATION	SOIL MIGRATION TO GROUNDWATER	SAMPLE LOCATION	Excavation Pit-1	Excavation Pit-1
						SAMPLE DEPTH (ft. below grade)	(6ft)	(12ft)
						DATE COLLECTED	12/14/16	12/14/16
						RECOGNIZED ENVIRONMENTAL CONDITIONS		
VOCs								
OtherVOCs	CS	CS	CS	CS	CS		<RL	<RL
PAHs								
2-Methylnaphthalene	91-57-6	340	3,000	6,800	3.7		<0.0062	**0.0088**
Other PAHs	CS	CS	CS	CS	CS		<RL	<RL
Metals								
Lead	7439-92-1	400	800	1,000	270		**15.8**	**11.6**

Notes:
Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.
[1]Screening Levels taken from IDEM Remediation Closure Guide, Appendix A, Table A-6, 2016.
Results above RL are shown in **bold**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.
VOCs -Volatile Organic Compounds; PCBs - Polychlorinated Biphenyls, PAHs - Polynuclear Aromatic Hydrocarbons.
Refer to the analytical report for the full list of VOC, PAH, PCB, and Metal analytes.
CS - Criterion is specific to individual constituent.
<RL - concentrations of all non-listed constituents were below their respective Method Reporting Limits.

ATTACHMENT A
PHOTOGRAPHIC DOCUMENTATION

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PHOTO NO. 1: View of anomaly area following utility locating activities.

PHOTO NO. 2: View of southern end of excavation.

SME Project No.:	075603.00
Photographs by:	Stephen Zins
Date:	January 13, 2017
Project:	UST Investigation
Location:	408 South Washington Street Kokomo, Indiana

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PHOTO NO. 3: View of native soils near the southern end of the excavation.

PHOTO NO. 4: View of excavation looking north.

SME Project No.:	075603.00
Photographs by:	Stephen Zins
Date:	January 13, 2017
Project:	UST Investigation
Location:	408 South Washington Street Kokomo, Indiana

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PHOTO NO. 5: View of excavation near the UST. Note soil staining and piping system in background.

PHOTO NO. 6: View of excavated concrete near the UST.

SME Project No.:	075603.00
Photographs by:	Stephen Zins
Date:	January 13, 2017
Project:	UST Investigation
Location:	408 South Washington Street Kokomo, Indiana

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PHOTO NO. 7: View of the fill port and top of the UST.

PHOTO NO. 8: View of excavation following backfilling activities.

SME Project No.:	075603.00
Photographs by:	Stephen Zins
Date:	January 13, 2017
Project:	UST Investigation
Location:	408 South Washington Street Kokomo, Indiana

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APPENDIX B
LABORATORY ANALYTICAL RESULTS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

December 22, 2016

Mr. Stephen Zins
SME
5835 W. 74th St
Indianapolis, IN 46268

RE: Project: BFLD Support Services
Pace Project No.: 50161282

Dear Mr. Zins:
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: BFLD Support Services
Pace Project No.: 50161282

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: BFLD Support Services
Pace Project No.: 50161282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50161282001	**Excavation Pit-1 (6ft)**	Solid	12/14/16 14:40	12/15/16 08:15
50161282002	**Excavation Pit-1 (12ft)**	Solid	12/14/16 15:10	12/15/16 08:15

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SAMPLE ANALYTE COUNT

Project: BFLD Support Services
Pace Project No.: 50161282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50161282001	**Excavation Pit-1 (6ft)**	EPA 6010	MJC	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	WDB	1	PASI-I
50161282002	**Excavation Pit-1 (12ft)**	EPA 6010	MJC	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	GRM	72	PASI-I
		SM 2540G	WDB	1	PASI-I

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (6ft) **Lab ID: 50161282001** Collected: 12/14/16 14:40 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**15.8**	mg/kg	1.2	1	12/19/16 07:01	12/20/16 14:06	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	208-96-8	
Anthracene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	207-08-9	
Chrysene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	206-44-0	
Fluorene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	91-57-6	
Naphthalene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	91-20-3	
Phenanthrene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	85-01-8	
Pyrene	ND	ug/kg	6.2	1	12/16/16 09:30	12/17/16 02:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	25-121	1	12/16/16 09:30	12/17/16 02:25	321-60-8	
p-Terphenyl-d14 (S)	67	%.	27-124	1	12/16/16 09:30	12/17/16 02:25	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	149	1		12/17/16 06:57	67-64-1	
Acrolein	ND	ug/kg	149	1		12/17/16 06:57	107-02-8	
Acrylonitrile	ND	ug/kg	149	1		12/17/16 06:57	107-13-1	
Benzene	ND	ug/kg	7.4	1		12/17/16 06:57	71-43-2	
Bromobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	108-86-1	
Bromochloromethane	ND	ug/kg	7.4	1		12/17/16 06:57	74-97-5	
Bromodichloromethane	ND	ug/kg	7.4	1		12/17/16 06:57	75-27-4	
Bromoform	ND	ug/kg	7.4	1		12/17/16 06:57	75-25-2	
Bromomethane	ND	ug/kg	7.4	1		12/17/16 06:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	37.2	1		12/17/16 06:57	78-93-3	
n-Butylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	98-06-6	
Carbon disulfide	ND	ug/kg	14.9	1		12/17/16 06:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.4	1		12/17/16 06:57	56-23-5	
Chlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	108-90-7	
Chloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	75-00-3	
Chloroform	ND	ug/kg	7.4	1		12/17/16 06:57	67-66-3	
Chloromethane	ND	ug/kg	7.4	1		12/17/16 06:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.4	1		12/17/16 06:57	95-49-8	

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (6ft) **Lab ID: 50161282001** Collected: 12/14/16 14:40 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/kg	7.4	1		12/17/16 06:57	106-43-4	
Dibromochloromethane	ND	ug/kg	7.4	1		12/17/16 06:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.4	1		12/17/16 06:57	106-93-4	
Dibromomethane	ND	ug/kg	7.4	1		12/17/16 06:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	149	1		12/17/16 06:57	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	7.4	1		12/17/16 06:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.4	1		12/17/16 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.4	1		12/17/16 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.4	1		12/17/16 06:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.4	1		12/17/16 06:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.4	1		12/17/16 06:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.4	1		12/17/16 06:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.4	1		12/17/16 06:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.4	1		12/17/16 06:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.4	1		12/17/16 06:57	10061-02-6	
Ethylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	100-41-4	
Ethyl methacrylate	ND	ug/kg	149	1		12/17/16 06:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	7.4	1		12/17/16 06:57	87-68-3	
n-Hexane	ND	ug/kg	7.4	1		12/17/16 06:57	110-54-3	
2-Hexanone	ND	ug/kg	149	1		12/17/16 06:57	591-78-6	
Iodomethane	ND	ug/kg	149	1		12/17/16 06:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	7.4	1		12/17/16 06:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.4	1		12/17/16 06:57	99-87-6	
Methylene Chloride	ND	ug/kg	29.8	1		12/17/16 06:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	37.2	1		12/17/16 06:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.4	1		12/17/16 06:57	1634-04-4	
n-Propylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	103-65-1	
Styrene	ND	ug/kg	7.4	1		12/17/16 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	79-34-5	
Tetrachloroethene	ND	ug/kg	7.4	1		12/17/16 06:57	127-18-4	
Toluene	ND	ug/kg	7.4	1		12/17/16 06:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.4	1		12/17/16 06:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.4	1		12/17/16 06:57	79-00-5	
Trichloroethene	ND	ug/kg	7.4	1		12/17/16 06:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.4	1		12/17/16 06:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.4	1		12/17/16 06:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.4	1		12/17/16 06:57	108-67-8	

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (6ft) **Lab ID: 50161282001** Collected: 12/14/16 14:40 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/kg	149	1		12/17/16 06:57	108-05-4	
Vinyl chloride	ND	ug/kg	7.4	1		12/17/16 06:57	75-01-4	
Xylene (Total)	ND	ug/kg	14.9	1		12/17/16 06:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	70-128	1		12/17/16 06:57	1868-53-7	
Toluene-d8 (S)	97	%.	72-139	1		12/17/16 06:57	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	65-127	1		12/17/16 06:57	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.2**	%	0.10	1		12/16/16 10:43		

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (12ft) **Lab ID: 50161282002** Collected: 12/14/16 15:10 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**11.6**	mg/kg	1.2	1	12/19/16 07:01	12/20/16 14:08	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	83-32-9	
Acenaphthylene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	208-96-8	
Anthracene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	207-08-9	
Chrysene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	53-70-3	
Fluoranthene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	206-44-0	
Fluorene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	90-12-0	N2
2-Methylnaphthalene	**8.8**	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	91-57-6	
Naphthalene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	91-20-3	
Phenanthrene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	85-01-8	
Pyrene	ND	ug/kg	6.0	1	12/16/16 09:30	12/17/16 02:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	25-121	1	12/16/16 09:30	12/17/16 02:41	321-60-8	
p-Terphenyl-d14 (S)	63	%.	27-124	1	12/16/16 09:30	12/17/16 02:41	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	132	1		12/17/16 07:30	67-64-1	
Acrolein	ND	ug/kg	132	1		12/17/16 07:30	107-02-8	
Acrylonitrile	ND	ug/kg	132	1		12/17/16 07:30	107-13-1	
Benzene	ND	ug/kg	6.6	1		12/17/16 07:30	71-43-2	
Bromobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	108-86-1	
Bromochloromethane	ND	ug/kg	6.6	1		12/17/16 07:30	74-97-5	
Bromodichloromethane	ND	ug/kg	6.6	1		12/17/16 07:30	75-27-4	
Bromoform	ND	ug/kg	6.6	1		12/17/16 07:30	75-25-2	
Bromomethane	ND	ug/kg	6.6	1		12/17/16 07:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	33.1	1		12/17/16 07:30	78-93-3	
n-Butylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	98-06-6	
Carbon disulfide	ND	ug/kg	13.2	1		12/17/16 07:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.6	1		12/17/16 07:30	56-23-5	
Chlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	108-90-7	
Chloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	75-00-3	
Chloroform	ND	ug/kg	6.6	1		12/17/16 07:30	67-66-3	
Chloromethane	ND	ug/kg	6.6	1		12/17/16 07:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.6	1		12/17/16 07:30	95-49-8	

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (12ft) **Lab ID: 50161282002** Collected: 12/14/16 15:10 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/kg	6.6	1		12/17/16 07:30	106-43-4	
Dibromochloromethane	ND	ug/kg	6.6	1		12/17/16 07:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.6	1		12/17/16 07:30	106-93-4	
Dibromomethane	ND	ug/kg	6.6	1		12/17/16 07:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	132	1		12/17/16 07:30	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.6	1		12/17/16 07:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.6	1		12/17/16 07:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.6	1		12/17/16 07:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.6	1		12/17/16 07:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.6	1		12/17/16 07:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.6	1		12/17/16 07:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.6	1		12/17/16 07:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.6	1		12/17/16 07:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.6	1		12/17/16 07:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.6	1		12/17/16 07:30	10061-02-6	
Ethylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	100-41-4	
Ethyl methacrylate	ND	ug/kg	132	1		12/17/16 07:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.6	1		12/17/16 07:30	87-68-3	
n-Hexane	ND	ug/kg	6.6	1		12/17/16 07:30	110-54-3	
2-Hexanone	ND	ug/kg	132	1		12/17/16 07:30	591-78-6	
Iodomethane	ND	ug/kg	132	1		12/17/16 07:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.6	1		12/17/16 07:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.6	1		12/17/16 07:30	99-87-6	
Methylene Chloride	ND	ug/kg	26.5	1		12/17/16 07:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	33.1	1		12/17/16 07:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.6	1		12/17/16 07:30	1634-04-4	
n-Propylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	103-65-1	
Styrene	ND	ug/kg	6.6	1		12/17/16 07:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	79-34-5	
Tetrachloroethene	ND	ug/kg	6.6	1		12/17/16 07:30	127-18-4	
Toluene	ND	ug/kg	6.6	1		12/17/16 07:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.6	1		12/17/16 07:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.6	1		12/17/16 07:30	79-00-5	
Trichloroethene	ND	ug/kg	6.6	1		12/17/16 07:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.6	1		12/17/16 07:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.6	1		12/17/16 07:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.6	1		12/17/16 07:30	108-67-8	

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ANALYTICAL RESULTS

Project: BFLD Support Services
Pace Project No.: 50161282

Sample: Excavation Pit-1 (12ft) **Lab ID: 50161282002** Collected: 12/14/16 15:10 Received: 12/15/16 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/kg	132	1		12/17/16 07:30	108-05-4	
Vinyl chloride	ND	ug/kg	6.6	1		12/17/16 07:30	75-01-4	
Xylene (Total)	ND	ug/kg	13.2	1		12/17/16 07:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	70-128	1		12/17/16 07:30	1868-53-7	
Toluene-d8 (S)	96	%.	72-139	1		12/17/16 07:30	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	65-127	1		12/17/16 07:30	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**17.5**	%	0.10	1		12/16/16 10:43		

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

QC Batch: 366921 | Analysis Method: EPA 6010
QC Batch Method: EPA 3050 | Analysis Description: 6010 MET
Associated Lab Samples: 50161282001, 50161282002

METHOD BLANK: 1695791 | Matrix: Solid
Associated Lab Samples: 50161282001, 50161282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	12/20/16 13:39	

LABORATORY CONTROL SAMPLE: 1695792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695793 1695794

Parameter	Units	50161415005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	4.0	50	51.5	51.3	54.1	94	97	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

QC Batch: 366903 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50161282001, 50161282002

METHOD BLANK: 1695639 | Matrix: Solid
Associated Lab Samples: 50161282001, 50161282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,1-Dichloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,1-Dichloroethene	ug/kg	ND	5.0	12/17/16 03:36	
1,1-Dichloropropene	ug/kg	ND	5.0	12/17/16 03:36	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/17/16 03:36	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/17/16 03:36	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,2-Dichloroethane	ug/kg	ND	5.0	12/17/16 03:36	
1,2-Dichloropropane	ug/kg	ND	5.0	12/17/16 03:36	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
1,3-Dichloropropane	ug/kg	ND	5.0	12/17/16 03:36	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
2,2-Dichloropropane	ug/kg	ND	5.0	12/17/16 03:36	
2-Butanone (MEK)	ug/kg	ND	25.0	12/17/16 03:36	
2-Chlorotoluene	ug/kg	ND	5.0	12/17/16 03:36	
2-Hexanone	ug/kg	ND	100	12/17/16 03:36	
4-Chlorotoluene	ug/kg	ND	5.0	12/17/16 03:36	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/17/16 03:36	
Acetone	ug/kg	ND	100	12/17/16 03:36	
Acrolein	ug/kg	ND	100	12/17/16 03:36	
Acrylonitrile	ug/kg	ND	100	12/17/16 03:36	
Benzene	ug/kg	ND	5.0	12/17/16 03:36	
Bromobenzene	ug/kg	ND	5.0	12/17/16 03:36	
Bromochloromethane	ug/kg	ND	5.0	12/17/16 03:36	
Bromodichloromethane	ug/kg	ND	5.0	12/17/16 03:36	
Bromoform	ug/kg	ND	5.0	12/17/16 03:36	
Bromomethane	ug/kg	ND	5.0	12/17/16 03:36	
Carbon disulfide	ug/kg	ND	10.0	12/17/16 03:36	
Carbon tetrachloride	ug/kg	ND	5.0	12/17/16 03:36	
Chlorobenzene	ug/kg	ND	5.0	12/17/16 03:36	
Chloroethane	ug/kg	ND	5.0	12/17/16 03:36	
Chloroform	ug/kg	ND	5.0	12/17/16 03:36	
Chloromethane	ug/kg	ND	5.0	12/17/16 03:36	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/16 03:36	

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

METHOD BLANK: 1695639 Matrix: Solid
Associated Lab Samples: 50161282001, 50161282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/16 03:36	
Dibromochloromethane	ug/kg	ND	5.0	12/17/16 03:36	
Dibromomethane	ug/kg	ND	5.0	12/17/16 03:36	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/17/16 03:36	
Ethyl methacrylate	ug/kg	ND	100	12/17/16 03:36	
Ethylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/17/16 03:36	
Iodomethane	ug/kg	ND	100	12/17/16 03:36	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/17/16 03:36	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/17/16 03:36	
Methylene Chloride	ug/kg	ND	20.0	12/17/16 03:36	
n-Butylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
n-Hexane	ug/kg	ND	5.0	12/17/16 03:36	
n-Propylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
p-Isopropyltoluene	ug/kg	ND	5.0	12/17/16 03:36	
sec-Butylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
Styrene	ug/kg	ND	5.0	12/17/16 03:36	
tert-Butylbenzene	ug/kg	ND	5.0	12/17/16 03:36	
Tetrachloroethene	ug/kg	ND	5.0	12/17/16 03:36	
Toluene	ug/kg	ND	5.0	12/17/16 03:36	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/16 03:36	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/16 03:36	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/17/16 03:36	
Trichloroethene	ug/kg	ND	5.0	12/17/16 03:36	
Trichlorofluoromethane	ug/kg	ND	5.0	12/17/16 03:36	
Vinyl acetate	ug/kg	ND	100	12/17/16 03:36	
Vinyl chloride	ug/kg	ND	5.0	12/17/16 03:36	
Xylene (Total)	ug/kg	ND	10.0	12/17/16 03:36	
4-Bromofluorobenzene (S)	%.	94	65-127	12/17/16 03:36	
Dibromofluoromethane (S)	%.	103	70-128	12/17/16 03:36	
Toluene-d8 (S)	%.	92	72-139	12/17/16 03:36	

LABORATORY CONTROL SAMPLE: 1695640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	48.3	97	67-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.1	100	67-129	
1,1-Dichloroethene	ug/kg	50	49.1	98	64-133	
1,2,4-Trimethylbenzene	ug/kg	50	42.7	85	66-118	
1,2-Dichloropropane	ug/kg	50	48.6	97	74-119	
Benzene	ug/kg	50	45.7	91	72-120	
Chlorobenzene	ug/kg	50	44.2	88	72-115	
Chloroform	ug/kg	50	48.4	97	66-116	
cis-1,2-Dichloroethene	ug/kg	50	48.8	98	74-115	

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(317)228-3100

QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

LABORATORY CONTROL SAMPLE: 1695640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/kg	50	47.1	94	70-121	
Isopropylbenzene (Cumene)	ug/kg	50	45.8	92	78-130	
Methyl-tert-butyl ether	ug/kg	50	50.5	101	68-123	
Tetrachloroethene	ug/kg	50	44.5	89	66-118	
Toluene	ug/kg	50	40.0	80	68-121	
trans-1,2-Dichloroethene	ug/kg	50	49.2	98	71-120	
Trichloroethene	ug/kg	50	48.7	97	73-120	
Vinyl chloride	ug/kg	50	52.3	105	54-155	
Xylene (Total)	ug/kg	150	138	92	69-122	
4-Bromofluorobenzene (S)	%.			95	65-127	
Dibromofluoromethane (S)	%.			100	70-128	
Toluene-d8 (S)	%.			93	72-139	

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

QC Batch: 366703 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50161282001, 50161282002

METHOD BLANK: 1694585 | Matrix: Solid
Associated Lab Samples: 50161282001, 50161282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	12/17/16 00:29	N2
2-Methylnaphthalene	ug/kg	ND	5.0	12/17/16 00:29	
Acenaphthene	ug/kg	ND	5.0	12/17/16 00:29	
Acenaphthylene	ug/kg	ND	5.0	12/17/16 00:29	
Anthracene	ug/kg	ND	5.0	12/17/16 00:29	
Benzo(a)anthracene	ug/kg	ND	5.0	12/17/16 00:29	
Benzo(a)pyrene	ug/kg	ND	5.0	12/17/16 00:29	
Benzo(b)fluoranthene	ug/kg	ND	5.0	12/17/16 00:29	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	12/17/16 00:29	
Benzo(k)fluoranthene	ug/kg	ND	5.0	12/17/16 00:29	
Chrysene	ug/kg	ND	5.0	12/17/16 00:29	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	12/17/16 00:29	
Fluoranthene	ug/kg	ND	5.0	12/17/16 00:29	
Fluorene	ug/kg	ND	5.0	12/17/16 00:29	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	12/17/16 00:29	
Naphthalene	ug/kg	ND	5.0	12/17/16 00:29	
Phenanthrene	ug/kg	ND	5.0	12/17/16 00:29	
Pyrene	ug/kg	ND	5.0	12/17/16 00:29	
2-Fluorobiphenyl (S)	%.	58	25-121	12/17/16 00:29	
p-Terphenyl-d14 (S)	%.	71	27-124	12/17/16 00:29	

LABORATORY CONTROL SAMPLE: 1694586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	330	293	89	41-109	N2
2-Methylnaphthalene	ug/kg	330	282	86	39-109	
Acenaphthene	ug/kg	330	295	89	44-127	
Acenaphthylene	ug/kg	330	292	89	43-128	
Anthracene	ug/kg	330	337	102	49-131	
Benzo(a)anthracene	ug/kg	330	354	107	52-128	
Benzo(a)pyrene	ug/kg	330	392	119	54-141	
Benzo(b)fluoranthene	ug/kg	330	385	117	50-146	
Benzo(g,h,i)perylene	ug/kg	330	383	116	51-141	
Benzo(k)fluoranthene	ug/kg	330	388	118	55-139	
Chrysene	ug/kg	330	349	106	56-131	
Dibenz(a,h)anthracene	ug/kg	330	386	117	53-142	
Fluoranthene	ug/kg	330	347	105	51-139	
Fluorene	ug/kg	330	328	99	45-131	
Indeno(1,2,3-cd)pyrene	ug/kg	330	386	117	51-141	
Naphthalene	ug/kg	330	241	73	43-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

LABORATORY CONTROL SAMPLE: 1694586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	330	341	103	47-132	
Pyrene	ug/kg	330	354	107	55-130	
2-Fluorobiphenyl (S)	%.			62	25-121	
p-Terphenyl-d14 (S)	%.			66	27-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694587 1694588

Parameter	Units	50161055010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	2380	421	420	3230	3050	203	160	17-118	6	20	M0,N2
2-Methylnaphthalene	ug/kg	4600	421	420	5910	5580	311	234	15-118	6	20	M0
Acenaphthene	ug/kg	27.8	421	420	399	377	88	83	21-125	6	20	
Acenaphthylene	ug/kg	ND	421	420	385	364	91	87	21-126	5	20	
Anthracene	ug/kg	6.4	421	420	394	376	92	88	15-134	5	20	
Benzo(a)anthracene	ug/kg	ND	421	420	379	370	90	88	14-129	2	20	
Benzo(a)pyrene	ug/kg	ND	421	420	452	423	107	101	10-146	7	20	
Benzo(b)fluoranthene	ug/kg	ND	421	420	366	319	87	76	10-146	13	20	
Benzo(g,h,i)perylene	ug/kg	ND	421	420	473	436	112	104	10-142	8	20	
Benzo(k)fluoranthene	ug/kg	ND	421	420	543	531	129	126	10-147	2	20	
Chrysene	ug/kg	ND	421	420	430	416	102	99	11-140	3	20	
Dibenz(a,h)anthracene	ug/kg	ND	421	420	398	369	94	88	16-136	8	20	
Fluoranthene	ug/kg	ND	421	420	380	363	89	85	10-146	4	20	
Fluorene	ug/kg	23.5	421	420	431	412	97	92	20-131	5	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	421	420	398	370	94	88	10-146	7	20	
Naphthalene	ug/kg	3870	421	420	5090	4760	289	212	15-126	7	20	M0
Phenanthrene	ug/kg	33.3	421	420	438	415	96	91	10-148	5	20	
Pyrene	ug/kg	7.4	421	420	436	403	102	94	14-136	8	20	
2-Fluorobiphenyl (S)	%.						56	54	25-121			
p-Terphenyl-d14 (S)	%.						57	55	27-124			

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QUALITY CONTROL DATA

Project: BFLD Support Services
Pace Project No.: 50161282

QC Batch: 366708 | Analysis Method: SM 2540G
QC Batch Method: SM 2540G | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50161282001, 50161282002

SAMPLE DUPLICATE: 1694601

Parameter	Units	50161400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.3	1	5	

SAMPLE DUPLICATE: 1694602

Parameter	Units	50161376002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	13.0	8	5	R1

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REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALIFIERS

Project: BFLD Support Services
Pace Project No.: 50161282

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BFLD Support Services
Pace Project No.: 50161282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50161282001	**Excavation Pit-1 (6ft)**	EPA 3050	366921	EPA 6010	367188
50161282002	**Excavation Pit-1 (12ft)**	EPA 3050	366921	EPA 6010	367188
50161282001	**Excavation Pit-1 (6ft)**	EPA 3546	366703	EPA 8270 by SIM	366833
50161282002	**Excavation Pit-1 (12ft)**	EPA 3546	366703	EPA 8270 by SIM	366833
50161282001	**Excavation Pit-1 (6ft)**	EPA 8260	366903		
50161282002	**Excavation Pit-1 (12ft)**	EPA 8260	366903		
50161282001	**Excavation Pit-1 (6ft)**	SM 2540G	366708		
50161282002	**Excavation Pit-1 (12ft)**	SM 2540G	366708		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1979592

Section A Required Client Information:

Company: SME
Address: 5835 W 74th ST
INDIANAPOLIS IN 46278
Email To: ZINS@SME-USA.COM
Phone: 317 876-0200 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: ZINS@SME-USA.COM
Copy To: ALVAREZ@SME-USA.COM
Purchase Order No.: 075603.00
Project Name: BFLD DBV SUPPORT SERVICES
Project Number: 075603.00 (FMR SOUTHSIDE LUMBER & CABOT PROP)

Section C Invoice Information:

Attention: SAA
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	PAHs	LEAD	LEAD SCAVENGERS	NAPHTHALENES	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EXCAVATION PIT-1 (6 FT)	SL	G	12.14.16	1440				6	3						1	2	✓	✓	✓	✓	✓		001
2	EXCAVATION PIT-1 (12 FT)	SL	G	12.14.16	1500				6	3						1	2	✓	✓		✓	✓		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

50161282

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Stephen P. Zins	12/15/16	8:15	[illegible] Pace	12/15/16	8:15	-4.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: SME

Project # 50161282

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 12/15/16 0830

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ziplock.

Thermometer 1 2 3 4 5 6 A B C D E F **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) -4.2°c **Ice Visible in Sample Containers:** ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/15/16 DR

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☐Yes ☑No	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	DC ☑Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☐Yes ☑No	15
Trip Blank Custody Seals Present	☐Yes ☑No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 12/15/16

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: SME

COC PAGE 1 of 1
COC ID# 1979592

Project # 50161282

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R (SBS DB Bulk Kit)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/WI/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1				2	4																Soil			
2				2	4																"			
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag