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October 21, 2016

Mr. Mike Styke  
2136 North Palmer Street  
Milwaukee, Wisconsin 53121

*Via Email: mstyke@gmail.com*

Reference: *Phase II Environmental Site Assessment*  
1515 East North Avenue  
Milwaukee, Wisconsin

KEY ENGINEERING GROUP, LTD.  
File No. 1610-0023-0001

Dear Mr. Styke,

This letter is to document the results of a *Phase II Environmental Site Assessment (ESA)* conducted at 1515 East North Avenue (subject site) by Key Engineering Group, Ltd. (KEY). A *Phase I ESA* was previously prepared for the subject site, by a third party. The findings of the Phase I ESA indicated that the adjacent site was a former gas station with the presence of three underground storage tanks between about 1950 and 1968 (with a separate building) and that the current building was previously operated as a former dry cleaner between about 1993 and 2000. Based on these findings, KEY retained to conduct a Phase II ESA at the subject site. The purpose of the Phase II ESA was to determine if, and to what potential degree, the subject site may be impacted as a potential for migration of any historical releases from the adjacent site operations. The Phase II ESA was conducted in general accordance with KEY's *Phase II Environmental Site Assessment Proposal*.

#### **SITE DESCRIPTION**

This Phase II ESA was completed at 1515 East North Avenue, in the City of Milwaukee, Milwaukee County, Wisconsin. The tax key number is 3550103000.

The subject site is approximately 0.25 acres and consists of an approximately 2,500 square foot, single story building constructed of cement block and brick. A site detail map is presented as Figure 2.

#### **INVESTIGATION LOCATIONS AND PROCEDURES**

Three soil probes (SB-1 through SB-3) were advanced using a direct push drill rig on October 6, 2016. The soil probe locations are presented on Figure 2. The soil probes were advanced to maximum depths of 20 feet bgs. Soil samples were collected by driving a steel sampling rod (sampler) with dedicated acetate liners to the desired sampling depth using the hydraulic ram and hammer on the direct push rig.

Soil samples were field screened for the presence of total ionizable volatile vapors using a calibrated photoionization detector (PID). A KEY scientist monitored the drilling activities and visually screened and described the soil qualities in accordance with the Unified Soil Classification System. Soil descriptions and field screening PID readings were recorded on Soil Boring Logs (WDNR Form 4400-122). The borings were abandoned with hydrated granular bentonite. Soil Boring Logs (WDNR Form 4400-122) and Borehole Filling and Sealing Forms (WDNR Form 3300-005) are included in Attachment 3.

Soil samples were submitted to a WDNR certified laboratory for analysis. Two soil samples per boring were analyzed for VOCs using Method 8260B, PAHs using Method 8270, and Lead using Method 6010. Soil samples were selected based on potential offsite sources of contamination, site operations, field screening data, or other visual or olfactory observations. Soil samples for laboratory analysis were placed in laboratory supplied containers and transported to the laboratory under proper chain of custody protocols. The soil laboratory report is included in Attachment 2.

## **INVESTIGATION RESULTS**

The soil probe locations are presented on Figure 2. Soil analytical results are summarized in Table 1. Below is a summary of the soil investigation completed at the subject site.

### **SB-1**

Soil probe, SB-1 was advanced 20 feet from the south property line off of East North Avenue along the west property line adjacent to the site of concern. Soil probe SB-1 was advanced to 20 feet bgs. Soils encountered at SB-1 consisted generally of orange/pink very stiff clay from 0 to 15 feet bgs and tan fine sand with coarse angular gravel from 15 to 20 feet bgs. Two soil samples were analyzed for VOCs, PAHs, and Lead from 2 to 4 and 14 to 16 feet bgs. No VOCs or PAHs were detected above laboratory detection limits within the soil sample taken from 2 to 4 feet bgs. Lead was detected at 7.5 mg/kg, this concentration does not exceed either the protection of groundwater or non-industrial direct contact RCL standards. In the 14 to 16 feet soil sample, there was one VOC, Tetrachloroethene (PCE), detected above laboratory detection limit with a concentration of 0.043J which is above the protection of groundwater RCL standard. There are four PAH compounds that were detected above laboratory detection limit, but they do not exceed either the protection of groundwater or non-industrial direct contact RCL standards. Lead was detected at 14 to 16 feet at 27.4 mg/kg which is above its protection of groundwater RCL, but below the acceptable background concentration of 52 mg/kg.

Groundwater was not encountered during the drilling activities. Based on our knowledge and the surrounding site conditions, it appears that groundwater is present at depths below 35-40 feet. It was not practical to attempt to evaluate groundwater since the vertical extent of the soil impacts is not known.

### **SB-2**

Soil probe SB-2 was advanced 40 feet from the north property line off of East North Avenue along the west property line. SB-2 was advanced to 20 feet bgs.

Soils encountered at SB-2 consisted generally of orange/pink very stiff clay from 0 to 15 feet bgs and fine-coarse gravel with fine sand from 15 to 20 feet bgs. Two soil samples were analyzed for VOCs, PAHs, and Lead from 2 to 4 feet and 16 to 18 feet bgs. PCE and Trichloroethene (TCE) were both detected above their respective protection of groundwater RCL standard within the 2 to 4-foot sample. No PAH compounds were detected above laboratory detection limits within the same sample. Lead was detected but is not of concern. In the 16 to 18 soil sample, PCE was detected again above its protection of groundwater RCL

standard. Twelve PAH compounds were detected above the laboratory detection limit, but were below their protection of groundwater and non-industrial direct contact RCL standards.

### **SB-3**

Soil probe SB-3 was advanced 60 feet from the north property line off of East North Avenue along the west property line. SB-3 was advanced to 20 feet bgs. Soils encountered at SB-2 consisted generally orang/pink very stiff clay from 0 to 15 feet bgs. The sample from 15 to 20 feet bgs was not described since the sample was stuck in the macro-core sampler. Two soil samples were analyzed for VOCs, PAHs, and Lead from 2 to 4 feet bgs and 10 to 12 feet bgs. No VOCs were detected above laboratory detection limits in either sample tested. 10 PAH compounds were detected above the laboratory detection limit within the 2 to 4-foot soil sample and two PAH compounds were detected above the laboratory detection limit in the 10 to 12-foot soil sample. None of the PAH compounds exceeded applicable standards. Lead was detected in both samples, but was not above the protection of groundwater RCL or non-industrial direct contact RCL standards. Based on the data from SB-3 it does not appear that the PCE and TCE impacts have migrated to significant distances onto the subject site.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based upon the investigation data collected during this Phase II ESA, PCE and TCE was detected in soils located adjacent to the former dry cleaner operations. PCE and TCE were commonly used solvents within dry cleaning operations. The degree of the impacts does not appear significant, and it is our opinion that the contaminants are from an off-site source located directly west. The detected compounds are considered a release and should be reported to the WDNR in accordance with the Wisconsin Spill Statues.

It is KEY's recommendation that an off-site liability exemption request for the subject site be prepared and submitted to the WDNR when the release is reported. The document would contain the Phase I and the history of the adjacent site along with the results and a presentation of the subject site history. Although there is no existing data from the adjacent site, the WDNR could request that the neighboring property conduct an investigation to determine if they are the source of this detected release.

If the WDNR grants the off-site liability exemption, then the property owner would not be responsible for the detected impacts. The Neighboring site would eventually have to determine the extent and degree of the impacts which may be related to their site and obtain the WDNR site closure. Any future costs would be borne by the neighboring property owner.

KEY will gladly work with the buyer to obtain the off- site liability exemption with the WDNR.

We do not believe that the subject site is impacted with petroleum products from the former gas station located to the west. The very low detections of PAHs do not appear of concern and are not above any applicable standards. The lead detected in the soils was below the acceptable background threshold values.

### **QUALIFICATIONS**

This assessment was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report. The findings of this assessment, to the best of knowledge, are valid as of the date of this assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this assessment may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Key Engineering Group, Ltd. Although care has been taken by Key Engineering Group, Ltd., in compiling this information, Key Engineering Group, Ltd., disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such in disclaims formation and data.

Please feel free to call if you have any questions regarding this Phase II ESA report.

Sincerely,  
KEY ENGINEERING GROUP, LTD.



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Chelsea L. Ames  
Staff Hydrogeologist



Kenneth W. Wein, CHMM  
Principal

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#### Attachments

Table 1	Soil Analytical Results
Figure 1	Site Location Map
Figure 2	Site Detail Map
Attachment 1	Soil Boring Logs and Boring Abandonment Forms
Attachment 2	Soil Laboratory Analytical Reports

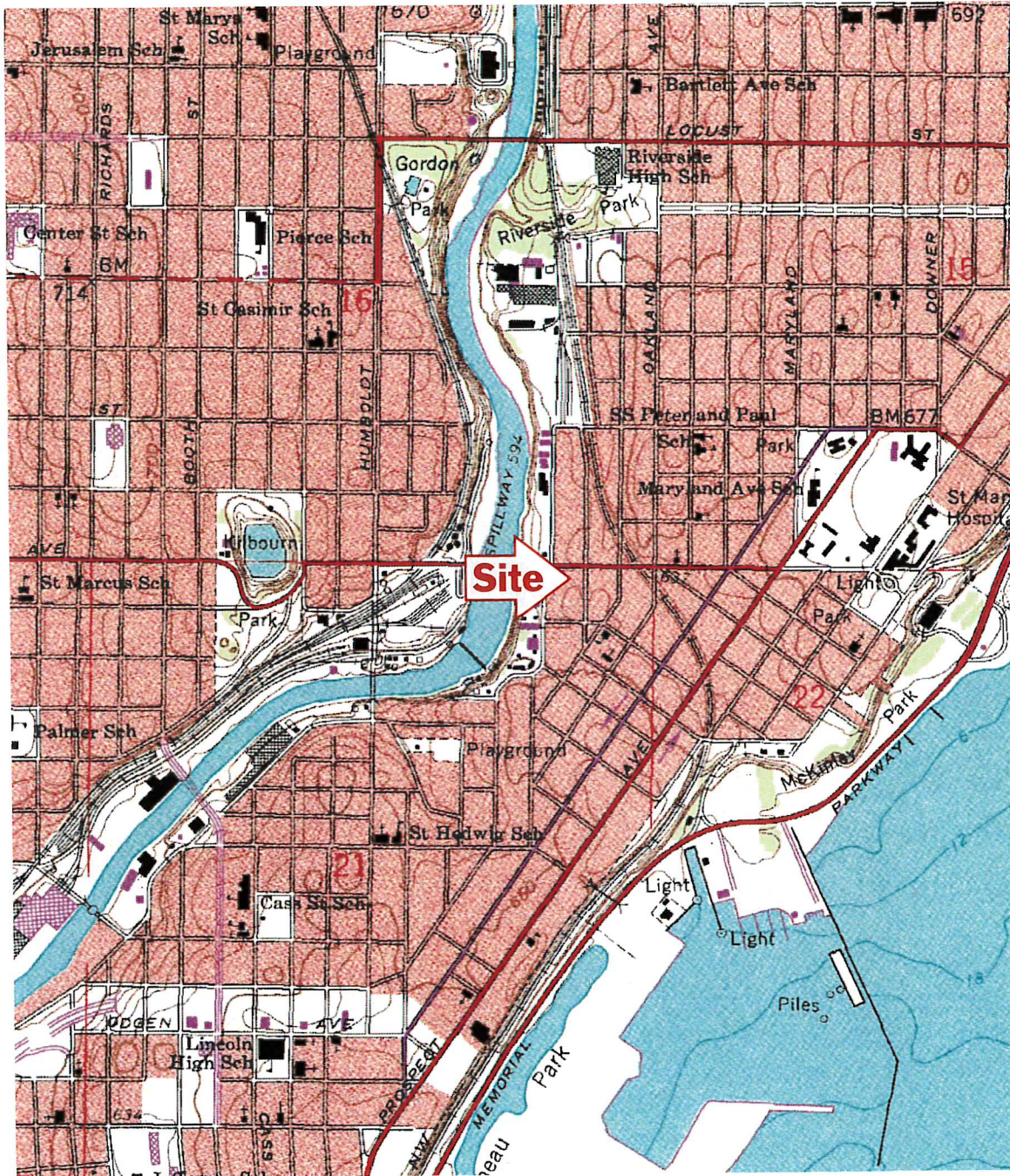
# Table 1

**Soil Analytical Results**  
**1515 East North Avenue, Milwaukee, Wisconsin**

PARAMETERS	Sample ID						Non-Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value
	SB-1		SB-2		SB-3				
Depth (feet bgs)	2-4	14-16	2-4	16-18	2-4	10-12			
Date Collected	10/6/2016		10/6/2016		10/6/2016				
Saturated(s)/Unsaturated(u)	u	u	u	u	u	u			
<b>Detected VOCs (mg/kg)</b>									
Tetrachloroethene	<0.025	<b>0.043J</b>	<b>0.90</b>	<b>0.12</b>	<0.025	<0.025	30.7	0.0045	---
Trichloroethene	<0.025	<0.025	<b>0.14</b>	<0.025	<0.025	<0.025	1.26	0.0036	---
<b>PAHs (mg/kg)</b>									
Acenaphthene	<0.0046	<0.0041	<0.0046	<0.0042	<0.0046	<0.0046	3,440	---	---
Acenaphthylene	<0.0039	<0.0035	<0.0039	<0.0036	<0.0039	<0.0039	---	---	---
Anthracene	<0.0068	<0.0061	<0.0068	<0.0062	<0.0067	<0.0068	17,200	196.9492	---
Benzo(a)anthracene	<0.0037	<0.0034	<0.0038	0.011J	0.0074J	0.0040J	0.147	---	---
Benzo(a)pyrene	<0.0030	<0.0027	<0.0030	0.0089J	0.0060J	<0.0030	0.015	0.47	---
Benzo(b)fluoranthene	<0.0033	<0.0030	<0.0033	0.010J	0.0079J	<0.0033	0.148	0.4793	---
Benzo(g,h,i)perylene	<0.0024	0.0067J	<0.0024	0.0062J	0.0044J	<0.0024	---	---	---
Benzo(k)fluoranthene	<0.0030	<0.0027	<0.0030	0.0039J	0.0049J	<0.0030	1.48	---	---
Chrysene	<0.0040	0.024	<0.0040	0.020	0.0087J	0.0045J	14.8	0.1446	---
Dibenzo(a,h)anthracene	<0.0026	<0.0024	<0.0026	<0.0024	<0.0026	<0.0026	0.015	---	---
Fluoranthene	<0.0062	<0.0056	<0.0062	0.026	0.014J	<0.0062	2,290	88.8778	---
Fluorene	<0.0049	<0.0044	<0.0049	<0.0045	<0.0049	<0.0049	2,290	14.8299	---
Indeno(1,2,3-cd)pyrene	<0.0026	<0.0023	<0.0026	0.0028J	0.0036J	<0.0026	0.148	---	---
1-methyl naphthalene	<0.0048	<0.0043	<0.0048	0.0051J	<0.0047	<0.0048	15.6	---	---
2-methyl naphthalene	<0.0059	<0.0053	<0.0059	0.0064J	<0.0059	<0.0059	229	---	---
Naphthalene	<0.010	<0.0090	<0.010	<0.0092	<0.0099	<0.010	5.15	0.6582	---
Phenanthrene	<0.014	0.062	<0.014	0.031J	<0.014	<0.014	---	---	---
Pyrene	<0.0053	0.010J	<0.0053	0.027	0.011J	<0.0053	1,720	54.5455	---
<b>Metals (mg/kg)</b>									
Lead	7.5	27.4	7.0	8.2	7.3	8.1	400	27	52

Notes:  
 Bold values exceed protection of groundwater residual contaminant level  
 Boxed values exceed non-industrial direct contact residual contaminant level  
 --- - no standard established  
 J - Results between laboratory limit of detection and limit of quantitation  
 bgs - below ground surface  
 mg/kg - milligrams per kilogram  
 PAHs - polycyclic aromatic hydrocarbons  
 VOCs - volatile organic compounds

# Figures



Location:  
Milwaukee, Wisconsin

Map Year:  
1971

Project:  
1610-0023-0001

Date:  
10/20/2016

Scale:

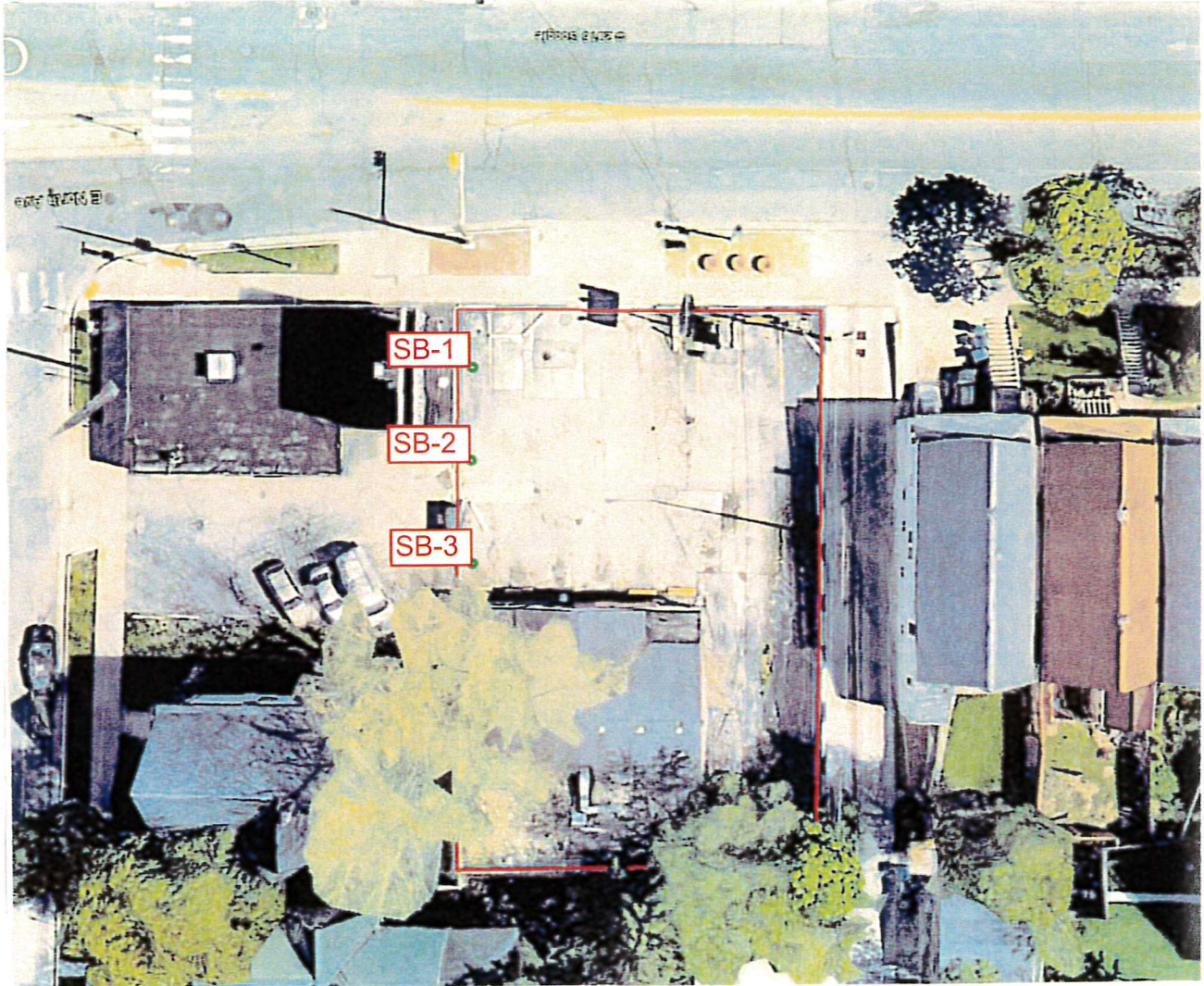
Series:



FIGURE 1  
SITE LOCATION MAP  
1515 EAST NORTH AVENUE  
MILWAUKEE, WISCONSIN








Location: Milwaukee, Wisconsin	Map Year: 2016
Project: 1610-0023-0001	Date: 10/20/2016
	Scale:
	Series:

FIGURE 2  
SOIL BORING LOCATION MAP  
1515 EAST NORTH AVENUE  
MILWAUKEE, WISCONSIN



# Attachment I

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Route to DNR Bureau:**

Verification Only of Fill and Seal

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County: Milwaukee      WI Unique Well # of Removed Well: \_\_\_\_\_      Hicap #: \_\_\_\_\_  
 Latitude / Longitude (see instructions): \_\_\_\_\_ N      Format Code:  DD      Method Code:  GPS008  
 \_\_\_\_\_ W       DDM       SCR002  
 \_\_\_\_\_       OTH001  
 1/4 or Gov't Lot #: \_\_\_\_\_      Section: \_\_\_\_\_      Township: \_\_\_\_\_      Range:  E       W  
 Well Street Address: 1515 East North Avenue  
 Well City, Village or Town: Milwaukee, WI      Well ZIP Code: \_\_\_\_\_  
 Subdivision Name: \_\_\_\_\_      Lot #: \_\_\_\_\_

Facility Name: 1515 E North Ave  
 Facility ID (FID or PWS): \_\_\_\_\_  
 License/Permit/Monitoring #: SB-1  
 Original Well Owner: \_\_\_\_\_  
 Present Well Owner: \_\_\_\_\_  
 Mailing Address of Present Owner: \_\_\_\_\_  
 City of Present Owner: \_\_\_\_\_      State: \_\_\_\_\_      ZIP Code: \_\_\_\_\_

Reason for Removal from Service: \_\_\_\_\_      WI Unique Well # of Replacement Well: \_\_\_\_\_

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well      Original Construction Date (mm/dd/yyyy): 10/06/2016  
 Water Well  
 Borehole / Drillhole      If a Well Construction Report is available, please attach. \_\_\_\_\_  
 Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Direct Push  
 Formation Type:  
 Unconsolidated Formation       Bedrock  
 Total Well Depth From Ground Surface (ft.): 20      Casing Diameter (in.): 2  
 Lower Drillhole Diameter (in.): \_\_\_\_\_      Casing Depth (ft.): \_\_\_\_\_  
 Was well annular space grouted?       Yes       No       Unknown  
 If yes, to what depth (feet)? \_\_\_\_\_      Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?       Yes       No       N/A  
 Liner(s) removed?       Yes       No       N/A  
 Liner(s) perforated?       Yes       No       N/A  
 Screen removed?       Yes       No       N/A  
 Casing left in place?       Yes       No       N/A  
 Was casing cut off below surface?       Yes       No       N/A  
 Did sealing material rise to surface?       Yes       No       N/A  
 Did material settle after 24 hours?       Yes       No       N/A  
 If yes, was hole retopped?       Yes       No       N/A  
 If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A  
 Required Method of Placing Sealing Material:  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): gravity  
 Sealing Materials:  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips      \*asphalt patch  
 For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

Bentonite chips

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>20</u>	<u>0.44</u>	

**6. Comments**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing: <u>KEY Engineering</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/06/2016</u>	<b>DNR Use Only</b>	
Street or Route: <u>735 N. Water St. Suite 510</u>	City: <u>Milwaukee</u>	State: <u>WI</u>	ZIP Code: <u>53202</u>	Date Received: _____
Telephone Number: <u>(414) 248-3000</u>	Signature of Person Doing Work: <u>[Signature]</u>	Date Signed: <u>10/06/2016</u>	Noted By: _____	
Comments: _____				

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Milwaukee</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>1515 East North Ave</b>
Latitude / Longitude (see instructions)	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 / 1/4 or Gov't Lot #	Section	Township	License/Permit/Monitoring # <b>SB-2</b>
Well Street Address <b>1515 East North Avenue</b>	Well City, Village or Town <b>Milwaukee</b>	Well ZIP Code	Original Well Owner
Subdivision Name	Lot #	City of Present Owner	State
Reason for Removal from Service	WI Unique Well # of Replacement Well	ZIP Code	Present Well Owner

**3. Filled & Sealed Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>10/06/2016</b>	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole	Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>	Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Total Well Depth From Ground Surface (ft.) <b>20</b>	Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.)	Casing Diameter (in.) <b>2</b>	Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Casing Depth (ft.)	Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, to what depth (feet)?	Depth to Water (feet)	Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
		Required Method of Placing Sealing Material: <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>gravity</b>
		Sealing Materials: <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips <b>asphalt patch</b>
		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Bentonite Chips</b>	Surface	<b>20</b>	<b>0.44</b>	

**6. Comments**

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>KEY Engineering</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/06/2016</b>	Date Received	Noted By
Street or Route <b>735 N. Water St. Suite 510</b>	Telephone Number <b>(414) 248 3000</b>	Comments		
City <b>Milwaukee</b>	State <b>WI</b>	ZIP Code <b>53202</b>	Signature of Person Doing Work <b>[Signature]</b>	Date Signed <b>10/06/2016</b>

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**Route to DNR Bureau:**

**Verification Only of Fill and Seal**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County: Milwaukee      WI Unique Well # of Removed Well: \_\_\_\_\_      Hicap #: \_\_\_\_\_  
 Latitude / Longitude (see instructions): \_\_\_\_\_ N      Format Code:  DD      Method Code:  GPS008  
 \_\_\_\_\_ W       DDM       SCR002  
 \_\_\_\_\_       OTH001  
 1/4 / 1/4: \_\_\_\_\_      Section: \_\_\_\_\_      Township: \_\_\_\_\_      Range:  E  
 or Gov't Lot #: \_\_\_\_\_      N       W  
 Well Street Address: 1515 East North Avenue  
 Well City, Village or Town: Milwaukee      Well ZIP Code: \_\_\_\_\_  
 Subdivision Name: \_\_\_\_\_      Lot #: \_\_\_\_\_  
 Reason for Removal from Service: \_\_\_\_\_      WI Unique Well # of Replacement Well: \_\_\_\_\_

Facility Name: 1515 East North Avenue  
 Facility ID (FID or PWS): \_\_\_\_\_  
 License/Permit/Monitoring #: SB-3  
 Original Well Owner: \_\_\_\_\_  
 Present Well Owner: \_\_\_\_\_  
 Mailing Address of Present Owner: \_\_\_\_\_  
 City of Present Owner: \_\_\_\_\_      State: \_\_\_\_\_      ZIP Code: \_\_\_\_\_

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well      Original Construction Date (mm/dd/yyyy): 10/06/2016  
 Water Well  
 Borehole / Drillhole      If a Well Construction Report is available, please attach. \_\_\_\_\_  
 Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Direct Push  
 Formation Type:  
 Unconsolidated Formation       Bedrock  
 Total Well Depth From Ground Surface (ft.): 20      Casing Diameter (in.): 2  
 Lower Drillhole Diameter (in.): \_\_\_\_\_      Casing Depth (ft.): \_\_\_\_\_  
 Was well annular space grouted?       Yes       No       Unknown  
 If yes, to what depth (feet)? \_\_\_\_\_      Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?       Yes       No       N/A  
 Liner(s) removed?       Yes       No       N/A  
 Liner(s) perforated?       Yes       No       N/A  
 Screen removed?       Yes       No       N/A  
 Casing left in place?       Yes       No       N/A  
 Was casing cut off below surface?       Yes       No       N/A  
 Did sealing material rise to surface?       Yes       No       N/A  
 Did material settle after 24 hours?       Yes       No       N/A  
 If yes, was hole retopped?       Yes       No       N/A  
 If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A  
 Required Method of Placing Sealing Material:  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): gravity  
 Sealing Materials:  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips      asphalt patch  
 For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.44	

**6. Comments**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing: <u>KFX Engineering</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/06/2016</u>	<b>DNR Use Only</b>	
Street or Route: <u>735 N. Water St. Suite 210</u>	Telephone Number: <u>(414) 214 8300</u>	Comments: _____	Date Received: _____	Noted By: _____
City: <u>Milwaukee</u>	State: <u>WI</u>	ZIP Code: <u>53202</u>	Signature of Person Doing Work: <u>[Signature]</u>	Date Signed: <u>10/06/2016</u>

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <u>1515 East North Ave</u>		License/Permit/Monitoring Number	Boring Number <u>SB-1</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Adam</u> Last Name: <u>Sweet</u> Firm: <u>Horizon</u>		Date Drilling Started <u>10/06/2016</u> m m / d d / y y y y	Date Drilling Completed <u>10/06/2016</u> m m / d d / y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>Direct Push</u>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane _____ N, _____ E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ Feet	
Facility ID	County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/or Village <u>City of Milwaukee</u>

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				3" asphalt				1.3							
	60			57" clay, very tough, w/ trace med-coarse gravel, angular, orange/pink, low plasticity				1.1							
			5	48" very tough clay, trace fine gravel angular, med plasticity, orange/pink w/ grey mottling				1.0							
	48							1.1							
			10	24" clay, very tough, trace fine gravel, med plasticity, orange/pink w/ grey mottling				1.7							
	48							1.4							
			15	12" med gravel w/ silt				1.7							
				12" Fine sand (silt), w/ coarse fine gravel				2.7							
	48			48" fine-coarse gravel, silt and fine sand, fine-coarse rock				1.9							
			20					3.2							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Cane Firm KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name 1515 East North Ave License/Permit/Monitoring Number \_\_\_\_\_ Boring Number SB-2

Boring Drilled By: Name of crew chief (first, last) and Firm  
First Name: Adam Last Name: Sweet Date Drilling Started 10/06/2016 Date Drilling Completed 10/06/2016 Drilling Method Direct Push

Firm: Horizon

WI Unique Well No. \_\_\_\_\_ DNR Well ID No. \_\_\_\_\_ Well Name \_\_\_\_\_ Final Static Water Level \_\_\_\_\_ Feet MSL Surface Elevation \_\_\_\_\_ Feet MSL Borehole Diameter 2 inches

Local Grid Origin  (estimated: ) or Boring Location   
State Plane \_\_\_\_\_ N, \_\_\_\_\_ E Lat 0 ' \_\_\_\_\_ " Long 0 ' \_\_\_\_\_ "

1/4 of \_\_\_\_\_ 1/4 of Section \_\_\_\_\_, T \_\_\_\_\_ N, R \_\_\_\_\_ Local Grid Location  N  E  S  W

Facility ID \_\_\_\_\_ County Milwaukee County Code 41 Civil Town/City or Village City of Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				3" asphalt				3.2							
	60			57" clay, very tough, w/ trace med-coarse gravel, angular, orange/pink, low plasticity				1.4							
			5	60" very tough, clay, w/ trace med-coarse ang. gravel, orange/pink w/ grey mottling, med plasticity				2.4							
	60							2.5							
			10					2.2							
	48			30" clay, very tough, w/ trace med-coarse ang. gravel, med plasticity orange/pink w/ grey mottling				2.1							
				13" fine sand and silt, brick, tan				3.4							
			15					2.9							
	110			16" fine-coarse gravel, fine sand and silt, fine-coarse crushed rock				3.8							
			20					4.1							

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature Adam Sweet Firm KEY Engineering

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <u>1515 East Noah Ave</u>		License/Permit/Monitoring Number	Boring Number <u>SB-3</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Adam</u> Last Name: <u>Swelt</u> Firm: <u>Horton</u>		Date Drilling Started <u>10/26/2016</u> m m d d y y y y	Date Drilling Completed <u>10/26/2016</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>Direct Push</u>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
State Plane _____ N, _____ E		Borehole Diameter <u>2</u> inches	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID _____		County <u>Milwaukee</u>	County Code <u>41</u>
		Civil Town/City/ or Village <u>City of Milwaukee</u>	

Sample Number and Type	Length At. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				3" asphalt				1.2						
	60			57" clay, very tough w/ trace med-coarse gravel, angular, low plasticity, orange/pink				2.6						
			5					4						
	60			60" clay, very tough w/ trace fine gravel angular, med plast, orange/pink w/ grey mottling				2.8						
								2.3						
			10					2.1						
	48			36" clay, very tough w/ trace fine gravel angular, med plasticity, orange/pink, w/ grey mottling				3.6						
				12" coarse gravel, silt, orange				2.9						
								1.4						
			15					2.3						
				Sample stuck in macrocore				1.6						
			20					1.8						
								2.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Camu Firm KEY Engineering

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# Attachment 2

October 19, 2016

Ken Wein  
KEY ENGINEERING GROUP, LTD.  
735 North Water Street  
Milwaukee, WI 53202

RE: Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

Dear Ken Wein:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 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,



Dan Milewsky  
dan.milewsky@pacelabs.com  
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.  
Cassie Haupt, KEY ENGINEERING GROUP, LTD.  
Toni Schoen, KEY ENGINEERING GROUP, LTD.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139780001	SB-1 (2-4)	Solid	10/06/16 09:00	10/08/16 07:35
40139780002	SB-1 (14-16)	Solid	10/06/16 09:15	10/08/16 07:35
40139780003	SB-2 (2-4)	Solid	10/06/16 09:30	10/08/16 07:35
40139780004	SB-2 (16-18)	Solid	10/06/16 09:45	10/08/16 07:35
40139780005	SB-3 (2-4)	Solid	10/06/16 10:00	10/08/16 07:35
40139780006	SB-3 (10-12)	Solid	10/06/16 10:15	10/08/16 07:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139780001	SB-1 (2-4)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1
40139780002	SB-1 (14-16)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1
40139780003	SB-2 (2-4)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1
40139780004	SB-2 (16-18)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1
40139780005	SB-3 (2-4)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1
40139780006	SB-3 (10-12)	EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	AH	1

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40139780001</b>	<b>SB-1 (2-4)</b>					
EPA 6010	Lead	7.5	mg/kg	1.4	10/11/16 13:46	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	10/13/16 14:30	
<b>40139780002</b>	<b>SB-1 (14-16)</b>					
EPA 6010	Lead	27.4	mg/kg	1.3	10/11/16 13:49	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0067J	mg/kg	0.0072	10/17/16 13:30	
EPA 8270 by SIM	Chrysene	0.024	mg/kg	0.012	10/17/16 13:30	
EPA 8270 by SIM	Phenanthrene	0.062	mg/kg	0.041	10/17/16 13:30	
EPA 8270 by SIM	Pyrene	0.010J	mg/kg	0.016	10/17/16 13:30	
EPA 8260	Tetrachloroethene	0.043J	mg/kg	0.064	10/10/16 14:43	
ASTM D2974-87	Percent Moisture	6.3	%	0.10	10/13/16 14:30	
<b>40139780003</b>	<b>SB-2 (2-4)</b>					
EPA 6010	Lead	7.0	mg/kg	1.5	10/11/16 13:51	
EPA 8260	Tetrachloroethene	0.90	mg/kg	0.071	10/10/16 15:06	
EPA 8260	Trichloroethene	0.14	mg/kg	0.071	10/10/16 15:06	
ASTM D2974-87	Percent Moisture	15.5	%	0.10	10/13/16 14:30	
<b>40139780004</b>	<b>SB-2 (16-18)</b>					
EPA 6010	Lead	8.2	mg/kg	1.3	10/11/16 13:53	
EPA 8270 by SIM	Benzo(a)anthracene	0.011J	mg/kg	0.012	10/17/16 19:04	
EPA 8270 by SIM	Benzo(a)pyrene	0.0089J	mg/kg	0.0091	10/17/16 19:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.010J	mg/kg	0.010	10/17/16 19:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0062J	mg/kg	0.0074	10/17/16 19:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0039J	mg/kg	0.0091	10/17/16 19:04	
EPA 8270 by SIM	Chrysene	0.020	mg/kg	0.012	10/17/16 19:04	
EPA 8270 by SIM	Fluoranthene	0.026	mg/kg	0.019	10/17/16 19:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.0028J	mg/kg	0.0080	10/17/16 19:04	
EPA 8270 by SIM	1-Methylnaphthalene	0.0051J	mg/kg	0.015	10/17/16 19:04	
EPA 8270 by SIM	2-Methylnaphthalene	0.0064J	mg/kg	0.018	10/17/16 19:04	
EPA 8270 by SIM	Phenanthrene	0.031J	mg/kg	0.042	10/17/16 19:04	
EPA 8270 by SIM	Pyrene	0.027	mg/kg	0.016	10/17/16 19:04	
EPA 8260	Tetrachloroethene	0.12	mg/kg	0.066	10/11/16 12:54	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	10/13/16 14:30	
<b>40139780005</b>	<b>SB-3 (2-4)</b>					
EPA 6010	Lead	7.3	mg/kg	1.5	10/11/16 13:56	
EPA 8270 by SIM	Benzo(a)anthracene	0.0074J	mg/kg	0.012	10/17/16 14:10	
EPA 8270 by SIM	Benzo(a)pyrene	0.0060J	mg/kg	0.0099	10/17/16 14:10	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0079J	mg/kg	0.011	10/17/16 14:10	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0044J	mg/kg	0.0080	10/17/16 14:10	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0049J	mg/kg	0.0098	10/17/16 14:10	
EPA 8270 by SIM	Chrysene	0.0087J	mg/kg	0.013	10/17/16 14:10	
EPA 8270 by SIM	Fluoranthene	0.014J	mg/kg	0.020	10/17/16 14:10	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.0036J	mg/kg	0.0086	10/17/16 14:10	
EPA 8270 by SIM	Pyrene	0.011J	mg/kg	0.018	10/17/16 14:10	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	10/13/16 14:57	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40139780006</b>	<b>SB-3 (10-12)</b>					
EPA 6010	Lead	8.1	mg/kg	1.4	10/11/16 13:58	
EPA 8270 by SIM	Benzo(a)anthracene	0.0040J	mg/kg	0.013	10/17/16 14:28	
EPA 8270 by SIM	Chrysene	0.0045J	mg/kg	0.013	10/17/16 14:28	
ASTM D2974-87	Percent Moisture	15.5	%	0.10	10/13/16 14:57	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-1 (2-4)**      **Lab ID: 40139780001**      Collected: 10/06/16 09:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	7.5	mg/kg	1.4	0.48	1	10/10/16 14:14	10/11/16 13:46	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	10/17/16 09:39	10/17/16 13:13	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	10/17/16 09:39	10/17/16 13:13	208-96-8	
Anthracene	<0.0068	mg/kg	0.022	0.0068	1	10/17/16 09:39	10/17/16 13:13	120-12-7	
Benzo(a)anthracene	<0.0037	mg/kg	0.013	0.0037	1	10/17/16 09:39	10/17/16 13:13	56-55-3	
Benzo(a)pyrene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 13:13	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.011	0.0033	1	10/17/16 09:39	10/17/16 13:13	205-99-2	
Benzo(g,h,i)perylene	<0.0024	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 13:13	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 13:13	207-08-9	
Chrysene	<0.0040	mg/kg	0.013	0.0040	1	10/17/16 09:39	10/17/16 13:13	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0088	0.0026	1	10/17/16 09:39	10/17/16 13:13	53-70-3	
Fluoranthene	<0.0062	mg/kg	0.021	0.0062	1	10/17/16 09:39	10/17/16 13:13	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	10/17/16 09:39	10/17/16 13:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0087	0.0026	1	10/17/16 09:39	10/17/16 13:13	193-39-5	
1-Methylnaphthalene	<0.0048	mg/kg	0.016	0.0048	1	10/17/16 09:39	10/17/16 13:13	90-12-0	
2-Methylnaphthalene	<0.0059	mg/kg	0.020	0.0059	1	10/17/16 09:39	10/17/16 13:13	91-57-6	
Naphthalene	<0.010	mg/kg	0.033	0.010	1	10/17/16 09:39	10/17/16 13:13	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	10/17/16 09:39	10/17/16 13:13	85-01-8	
Pyrene	<0.0053	mg/kg	0.018	0.0053	1	10/17/16 09:39	10/17/16 13:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	26-130		1	10/17/16 09:39	10/17/16 13:13	321-60-8	
Terphenyl-d14 (S)	72	%	10-130		1	10/17/16 09:39	10/17/16 13:13	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/10/16 07:45	10/10/16 14:21	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/10/16 07:45	10/10/16 14:21	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/10/16 07:45	10/10/16 14:21	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/10/16 07:45	10/10/16 14:21	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	106-93-4	W

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-1 (2-4)**      **Lab ID: 40139780001**      Collected: 10/06/16 09:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/10/16 07:45	10/10/16 14:21	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/10/16 07:45	10/10/16 14:21	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/10/16 07:45	10/10/16 14:21	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:21	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	94	%	53-165		1	10/10/16 07:45	10/10/16 14:21	1868-53-7	
Toluene-d8 (S)	94	%	54-163		1	10/10/16 07:45	10/10/16 14:21	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

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**Sample: SB-1 (2-4)**      **Lab ID: 40139780001**      Collected: 10/06/16 09:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	48-138		1	10/10/16 07:45	10/10/16 14:21	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>15.4</b>	%	0.10	0.10	1		10/13/16 14:30		

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-1 (14-16)**      **Lab ID: 40139780002**      Collected: 10/06/16 09:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	27.4	mg/kg	1.3	0.42	1	10/10/16 14:14	10/11/16 13:49	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0041	mg/kg	0.014	0.0041	1	10/17/16 09:39	10/17/16 13:30	83-32-9	
Acenaphthylene	<0.0035	mg/kg	0.012	0.0035	1	10/17/16 09:39	10/17/16 13:30	208-96-8	
Anthracene	<0.0061	mg/kg	0.020	0.0061	1	10/17/16 09:39	10/17/16 13:30	120-12-7	
Benzo(a)anthracene	<0.0034	mg/kg	0.011	0.0034	1	10/17/16 09:39	10/17/16 13:30	56-55-3	
Benzo(a)pyrene	<0.0027	mg/kg	0.0089	0.0027	1	10/17/16 09:39	10/17/16 13:30	50-32-8	
Benzo(b)fluoranthene	<0.0030	mg/kg	0.010	0.0030	1	10/17/16 09:39	10/17/16 13:30	205-99-2	
Benzo(g,h,i)perylene	0.0067J	mg/kg	0.0072	0.0022	1	10/17/16 09:39	10/17/16 13:30	191-24-2	
Benzo(k)fluoranthene	<0.0027	mg/kg	0.0089	0.0027	1	10/17/16 09:39	10/17/16 13:30	207-08-9	
Chrysene	0.024	mg/kg	0.012	0.0036	1	10/17/16 09:39	10/17/16 13:30	218-01-9	
Dibenz(a,h)anthracene	<0.0024	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 13:30	53-70-3	
Fluoranthene	<0.0056	mg/kg	0.019	0.0056	1	10/17/16 09:39	10/17/16 13:30	206-44-0	
Fluorene	<0.0044	mg/kg	0.015	0.0044	1	10/17/16 09:39	10/17/16 13:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	mg/kg	0.0078	0.0023	1	10/17/16 09:39	10/17/16 13:30	193-39-5	
1-Methylnaphthalene	<0.0043	mg/kg	0.014	0.0043	1	10/17/16 09:39	10/17/16 13:30	90-12-0	
2-Methylnaphthalene	<0.0053	mg/kg	0.018	0.0053	1	10/17/16 09:39	10/17/16 13:30	91-57-6	
Naphthalene	<0.0090	mg/kg	0.030	0.0090	1	10/17/16 09:39	10/17/16 13:30	91-20-3	
Phenanthrene	0.062	mg/kg	0.041	0.012	1	10/17/16 09:39	10/17/16 13:30	85-01-8	
Pyrene	0.010J	mg/kg	0.016	0.0048	1	10/17/16 09:39	10/17/16 13:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	26-130		1	10/17/16 09:39	10/17/16 13:30	321-60-8	
Terphenyl-d14 (S)	69	%	10-130		1	10/17/16 09:39	10/17/16 13:30	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/10/16 07:45	10/10/16 14:43	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/10/16 07:45	10/10/16 14:43	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/10/16 07:45	10/10/16 14:43	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/10/16 07:45	10/10/16 14:43	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	106-93-4	W

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-1 (14-16)**      **Lab ID: 40139780002**      Collected: 10/06/16 09:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/10/16 07:45	10/10/16 14:43	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	79-34-5	W
Tetrachloroethene	0.043J	mg/kg	0.064	0.027	1	10/10/16 07:45	10/10/16 14:43	127-18-4	
Toluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/10/16 07:45	10/10/16 14:43	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/10/16 07:45	10/10/16 14:43	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 14:43	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	53-165		1	10/10/16 07:45	10/10/16 14:43	1868-53-7	
Toluene-d8 (S)	98	%	54-163		1	10/10/16 07:45	10/10/16 14:43	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

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**Sample: SB-1 (14-16)**      **Lab ID: 40139780002**      Collected: 10/06/16 09:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	48-138		1	10/10/16 07:45	10/10/16 14:43	460-00-4	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87								
Percent Moisture	<b>6.3</b>	%	0.10	0.10	1		10/13/16 14:30		

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-2 (2-4)**      **Lab ID: 40139780003**      Collected: 10/06/16 09:30      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Lead	7.0	mg/kg	1.5	0.50	1	10/10/16 14:14	10/11/16 13:51	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	10/17/16 09:39	10/17/16 13:53	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	10/17/16 09:39	10/17/16 13:53	208-96-8	
Anthracene	<0.0068	mg/kg	0.022	0.0068	1	10/17/16 09:39	10/17/16 13:53	120-12-7	
Benzo(a)anthracene	<0.0038	mg/kg	0.013	0.0038	1	10/17/16 09:39	10/17/16 13:53	56-55-3	
Benzo(a)pyrene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 13:53	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.011	0.0033	1	10/17/16 09:39	10/17/16 13:53	205-99-2	
Benzo(g,h,i)perylene	<0.0024	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 13:53	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 13:53	207-08-9	
Chrysene	<0.0040	mg/kg	0.013	0.0040	1	10/17/16 09:39	10/17/16 13:53	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0088	0.0026	1	10/17/16 09:39	10/17/16 13:53	53-70-3	
Fluoranthene	<0.0062	mg/kg	0.021	0.0062	1	10/17/16 09:39	10/17/16 13:53	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	10/17/16 09:39	10/17/16 13:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0087	0.0026	1	10/17/16 09:39	10/17/16 13:53	193-39-5	
1-Methylnaphthalene	<0.0048	mg/kg	0.016	0.0048	1	10/17/16 09:39	10/17/16 13:53	90-12-0	
2-Methylnaphthalene	<0.0059	mg/kg	0.020	0.0059	1	10/17/16 09:39	10/17/16 13:53	91-57-6	
Naphthalene	<0.010	mg/kg	0.033	0.010	1	10/17/16 09:39	10/17/16 13:53	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	10/17/16 09:39	10/17/16 13:53	85-01-8	
Pyrene	<0.0053	mg/kg	0.018	0.0053	1	10/17/16 09:39	10/17/16 13:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	26-130		1	10/17/16 09:39	10/17/16 13:53	321-60-8	
Terphenyl-d14 (S)	64	%	10-130		1	10/17/16 09:39	10/17/16 13:53	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/10/16 07:45	10/10/16 15:06	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/10/16 07:45	10/10/16 15:06	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/10/16 07:45	10/10/16 15:06	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/10/16 07:45	10/10/16 15:06	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	106-93-4	W

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-2 (2-4)**      **Lab ID: 40139780003**      Collected: 10/06/16 09:30      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/10/16 07:45	10/10/16 15:06	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	79-34-5	W
Tetrachloroethene	0.90	mg/kg	0.071	0.030	1	10/10/16 07:45	10/10/16 15:06	127-18-4	
Toluene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/10/16 07:45	10/10/16 15:06	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	79-00-5	W
Trichloroethene	0.14	mg/kg	0.071	0.030	1	10/10/16 07:45	10/10/16 15:06	79-01-6	
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/10/16 07:45	10/10/16 15:06	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/10/16 07:45	10/10/16 15:06	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	53-165		1	10/10/16 07:45	10/10/16 15:06	1868-53-7	
Toluene-d8 (S)	97	%	54-163		1	10/10/16 07:45	10/10/16 15:06	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

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**Sample: SB-2 (2-4)**      **Lab ID: 40139780003**      Collected: 10/06/16 09:30      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	48-138		1	10/10/16 07:45	10/10/16 15:06	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>15.5</b>	%	0.10	0.10	1		10/13/16 14:30		

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-2 (16-18)**      **Lab ID: 40139780004**      Collected: 10/06/16 09:45      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Lead	8.2	mg/kg	1.3	0.44	1	10/10/16 14:14	10/11/16 13:53	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Acenaphthene	<0.0042	mg/kg	0.014	0.0042	1	10/17/16 09:39	10/17/16 19:04	83-32-9	
Acenaphthylene	<0.0036	mg/kg	0.012	0.0036	1	10/17/16 09:39	10/17/16 19:04	208-96-8	
Anthracene	<0.0062	mg/kg	0.021	0.0062	1	10/17/16 09:39	10/17/16 19:04	120-12-7	
Benzo(a)anthracene	0.011J	mg/kg	0.012	0.0035	1	10/17/16 09:39	10/17/16 19:04	56-55-3	
Benzo(a)pyrene	0.0089J	mg/kg	0.0091	0.0027	1	10/17/16 09:39	10/17/16 19:04	50-32-8	
Benzo(b)fluoranthene	0.010J	mg/kg	0.010	0.0031	1	10/17/16 09:39	10/17/16 19:04	205-99-2	
Benzo(g,h,i)perylene	0.0062J	mg/kg	0.0074	0.0022	1	10/17/16 09:39	10/17/16 19:04	191-24-2	
Benzo(k)fluoranthene	0.0039J	mg/kg	0.0091	0.0027	1	10/17/16 09:39	10/17/16 19:04	207-08-9	
Chrysene	0.020	mg/kg	0.012	0.0037	1	10/17/16 09:39	10/17/16 19:04	218-01-9	
Dibenz(a,h)anthracene	<0.0024	mg/kg	0.0081	0.0024	1	10/17/16 09:39	10/17/16 19:04	53-70-3	
Fluoranthene	0.026	mg/kg	0.019	0.0057	1	10/17/16 09:39	10/17/16 19:04	206-44-0	
Fluorene	<0.0045	mg/kg	0.015	0.0045	1	10/17/16 09:39	10/17/16 19:04	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0028J	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 19:04	193-39-5	
1-Methylnaphthalene	0.0051J	mg/kg	0.015	0.0044	1	10/17/16 09:39	10/17/16 19:04	90-12-0	
2-Methylnaphthalene	0.0064J	mg/kg	0.018	0.0055	1	10/17/16 09:39	10/17/16 19:04	91-57-6	
Naphthalene	<0.0092	mg/kg	0.031	0.0092	1	10/17/16 09:39	10/17/16 19:04	91-20-3	
Phenanthrene	0.031J	mg/kg	0.042	0.013	1	10/17/16 09:39	10/17/16 19:04	85-01-8	
Pyrene	0.027	mg/kg	0.016	0.0049	1	10/17/16 09:39	10/17/16 19:04	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	26-130		1	10/17/16 09:39	10/17/16 19:04	321-60-8	
Terphenyl-d14 (S)	76	%	10-130		1	10/17/16 09:39	10/17/16 19:04	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/11/16 07:30	10/11/16 12:54	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/11/16 07:30	10/11/16 12:54	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/11/16 07:30	10/11/16 12:54	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/11/16 07:30	10/11/16 12:54	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	106-93-4	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-2 (16-18)**      **Lab ID: 40139780004**      Collected: 10/06/16 09:45      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/11/16 07:30	10/11/16 12:54	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	79-34-5	W
Tetrachloroethene	0.12	mg/kg	0.066	0.027	1	10/11/16 07:30	10/11/16 12:54	127-18-4	
Toluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/11/16 07:30	10/11/16 12:54	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/11/16 07:30	10/11/16 12:54	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 12:54	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	53-165		1	10/11/16 07:30	10/11/16 12:54	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	10/11/16 07:30	10/11/16 12:54	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-2 (16-18)**      **Lab ID: 40139780004**      Collected: 10/06/16 09:45      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	48-138		1	10/11/16 07:30	10/11/16 12:54	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>8.5</b>	%	0.10	0.10	1		10/13/16 14:30		

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (2-4)**      **Lab ID: 40139780005**      Collected: 10/06/16 10:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Lead	7.3	mg/kg	1.5	0.49	1	10/10/16 14:14	10/11/16 13:56	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	10/17/16 09:39	10/17/16 14:10	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	10/17/16 09:39	10/17/16 14:10	208-96-8	
Anthracene	<0.0067	mg/kg	0.022	0.0067	1	10/17/16 09:39	10/17/16 14:10	120-12-7	
Benzo(a)anthracene	0.0074J	mg/kg	0.012	0.0037	1	10/17/16 09:39	10/17/16 14:10	56-55-3	
Benzo(a)pyrene	0.0060J	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 14:10	50-32-8	
Benzo(b)fluoranthene	0.0079J	mg/kg	0.011	0.0033	1	10/17/16 09:39	10/17/16 14:10	205-99-2	
Benzo(g,h,i)perylene	0.0044J	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 14:10	191-24-2	
Benzo(k)fluoranthene	0.0049J	mg/kg	0.0098	0.0030	1	10/17/16 09:39	10/17/16 14:10	207-08-9	
Chrysene	0.0087J	mg/kg	0.013	0.0040	1	10/17/16 09:39	10/17/16 14:10	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0088	0.0026	1	10/17/16 09:39	10/17/16 14:10	53-70-3	
Fluoranthene	0.014J	mg/kg	0.020	0.0061	1	10/17/16 09:39	10/17/16 14:10	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	10/17/16 09:39	10/17/16 14:10	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0036J	mg/kg	0.0086	0.0026	1	10/17/16 09:39	10/17/16 14:10	193-39-5	
1-Methylnaphthalene	<0.0047	mg/kg	0.016	0.0047	1	10/17/16 09:39	10/17/16 14:10	90-12-0	
2-Methylnaphthalene	<0.0059	mg/kg	0.020	0.0059	1	10/17/16 09:39	10/17/16 14:10	91-57-6	
Naphthalene	<0.0099	mg/kg	0.033	0.0099	1	10/17/16 09:39	10/17/16 14:10	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	10/17/16 09:39	10/17/16 14:10	85-01-8	
Pyrene	0.011J	mg/kg	0.018	0.0053	1	10/17/16 09:39	10/17/16 14:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	26-130		1	10/17/16 09:39	10/17/16 14:10	321-60-8	
Terphenyl-d14 (S)	61	%	10-130		1	10/17/16 09:39	10/17/16 14:10	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/11/16 07:30	10/11/16 13:17	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/11/16 07:30	10/11/16 13:17	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/11/16 07:30	10/11/16 13:17	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/11/16 07:30	10/11/16 13:17	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	106-93-4	W

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (2-4)**      **Lab ID: 40139780005**      Collected: 10/06/16 10:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-71-8	R1,W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/11/16 07:30	10/11/16 13:17	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/11/16 07:30	10/11/16 13:17	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/11/16 07:30	10/11/16 13:17	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:17	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	53-165		1	10/11/16 07:30	10/11/16 13:17	1868-53-7	
Toluene-d8 (S)	105	%	54-163		1	10/11/16 07:30	10/11/16 13:17	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (2-4)**      **Lab ID: 40139780005**      Collected: 10/06/16 10:00      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	48-138		1	10/11/16 07:30	10/11/16 13:17	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>15.1</b>	%	0.10	0.10	1		10/13/16 14:57		

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## ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (10-12)**      **Lab ID: 40139780006**      Collected: 10/06/16 10:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	8.1	mg/kg	1.4	0.46	1	10/10/16 14:14	10/11/16 13:58	7439-92-1	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	10/17/16 09:39	10/17/16 14:28	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	10/17/16 09:39	10/17/16 14:28	208-96-8	
Anthracene	<0.0068	mg/kg	0.022	0.0068	1	10/17/16 09:39	10/17/16 14:28	120-12-7	
Benzo(a)anthracene	0.0040J	mg/kg	0.013	0.0038	1	10/17/16 09:39	10/17/16 14:28	56-55-3	
Benzo(a)pyrene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 14:28	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.011	0.0033	1	10/17/16 09:39	10/17/16 14:28	205-99-2	
Benzo(g,h,i)perylene	<0.0024	mg/kg	0.0080	0.0024	1	10/17/16 09:39	10/17/16 14:28	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.0099	0.0030	1	10/17/16 09:39	10/17/16 14:28	207-08-9	
Chrysene	0.0045J	mg/kg	0.013	0.0040	1	10/17/16 09:39	10/17/16 14:28	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0088	0.0026	1	10/17/16 09:39	10/17/16 14:28	53-70-3	
Fluoranthene	<0.0062	mg/kg	0.021	0.0062	1	10/17/16 09:39	10/17/16 14:28	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	10/17/16 09:39	10/17/16 14:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0087	0.0026	1	10/17/16 09:39	10/17/16 14:28	193-39-5	
1-Methylnaphthalene	<0.0048	mg/kg	0.016	0.0048	1	10/17/16 09:39	10/17/16 14:28	90-12-0	
2-Methylnaphthalene	<0.0059	mg/kg	0.020	0.0059	1	10/17/16 09:39	10/17/16 14:28	91-57-6	
Naphthalene	<0.010	mg/kg	0.033	0.010	1	10/17/16 09:39	10/17/16 14:28	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	10/17/16 09:39	10/17/16 14:28	85-01-8	
Pyrene	<0.0053	mg/kg	0.018	0.0053	1	10/17/16 09:39	10/17/16 14:28	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	26-130		1	10/17/16 09:39	10/17/16 14:28	321-60-8	
Terphenyl-d14 (S)	62	%	10-130		1	10/17/16 09:39	10/17/16 14:28	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	10/11/16 07:30	10/11/16 13:40	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	10/11/16 07:30	10/11/16 13:40	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	10/11/16 07:30	10/11/16 13:40	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	10/11/16 07:30	10/11/16 13:40	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	106-93-4	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (10-12)**      **Lab ID: 40139780006**      Collected: 10/06/16 10:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	10/11/16 07:30	10/11/16 13:40	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	10/11/16 07:30	10/11/16 13:40	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	10/11/16 07:30	10/11/16 13:40	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	10/11/16 07:30	10/11/16 13:40	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	53-165		1	10/11/16 07:30	10/11/16 13:40	1868-53-7	
Toluene-d8 (S)	108	%	54-163		1	10/11/16 07:30	10/11/16 13:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

**Sample: SB-3 (10-12)**      **Lab ID: 40139780006**      Collected: 10/06/16 10:15      Received: 10/08/16 07:35      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	48-138		1	10/11/16 07:30	10/11/16 13:40	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>15.5</b>	%	0.10	0.10	1		10/13/16 14:57		

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**QUALITY CONTROL DATA**

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

QC Batch: 237642 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Associated Lab Samples: 40139780001, 40139780002, 40139780003, 40139780004, 40139780005, 40139780006

METHOD BLANK: 1408408 Matrix: Solid  
Associated Lab Samples: 40139780001, 40139780002, 40139780003, 40139780004, 40139780005, 40139780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	10/11/16 13:15	

LABORATORY CONTROL SAMPLE: 1408409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408410 1408411

Parameter	Units	40139778001		40139778001		40139778001		40139778001		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Lead	mg/kg	18.5	57.8	18.5	57.8	64.9	65.7	80	81	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

QC Batch: 237639 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Associated Lab Samples: 40139780001, 40139780002, 40139780003

METHOD BLANK: 1408400 Matrix: Solid

Associated Lab Samples: 40139780001, 40139780002, 40139780003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	10/10/16 10:35	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	10/10/16 10:35	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	10/10/16 10:35	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	10/10/16 10:35	
1,1-Dichloroethane	mg/kg	<0.018	0.050	10/10/16 10:35	
1,1-Dichloroethene	mg/kg	<0.018	0.050	10/10/16 10:35	
1,1-Dichloropropene	mg/kg	<0.014	0.050	10/10/16 10:35	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	10/10/16 10:35	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	10/10/16 10:35	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	10/10/16 10:35	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	10/10/16 10:35	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	10/10/16 10:35	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	10/10/16 10:35	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	10/10/16 10:35	
1,2-Dichloroethane	mg/kg	<0.015	0.050	10/10/16 10:35	
1,2-Dichloropropane	mg/kg	<0.017	0.050	10/10/16 10:35	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	10/10/16 10:35	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	10/10/16 10:35	
1,3-Dichloropropane	mg/kg	<0.012	0.050	10/10/16 10:35	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	10/10/16 10:35	
2,2-Dichloropropane	mg/kg	<0.013	0.050	10/10/16 10:35	
2-Chlorotoluene	mg/kg	<0.016	0.050	10/10/16 10:35	
4-Chlorotoluene	mg/kg	<0.013	0.050	10/10/16 10:35	
Benzene	mg/kg	<0.0092	0.020	10/10/16 10:35	
Bromobenzene	mg/kg	<0.021	0.050	10/10/16 10:35	
Bromochloromethane	mg/kg	<0.021	0.050	10/10/16 10:35	
Bromodichloromethane	mg/kg	<0.0098	0.050	10/10/16 10:35	
Bromoform	mg/kg	<0.020	0.050	10/10/16 10:35	
Bromomethane	mg/kg	<0.070	0.25	10/10/16 10:35	
Carbon tetrachloride	mg/kg	<0.012	0.050	10/10/16 10:35	
Chlorobenzene	mg/kg	<0.015	0.050	10/10/16 10:35	
Chloroethane	mg/kg	<0.067	0.25	10/10/16 10:35	
Chloroform	mg/kg	<0.046	0.25	10/10/16 10:35	
Chloromethane	mg/kg	<0.020	0.050	10/10/16 10:35	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	10/10/16 10:35	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	10/10/16 10:35	
Dibromochloromethane	mg/kg	<0.018	0.050	10/10/16 10:35	
Dibromomethane	mg/kg	<0.019	0.050	10/10/16 10:35	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	10/10/16 10:35	
Diisopropyl ether	mg/kg	<0.018	0.050	10/10/16 10:35	
Ethylbenzene	mg/kg	<0.012	0.050	10/10/16 10:35	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

METHOD BLANK: 1408400

Matrix: Solid

Associated Lab Samples: 40139780001, 40139780002, 40139780003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	0.037J	0.050	10/10/16 10:35	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	10/10/16 10:35	
m&p-Xylene	mg/kg	<0.034	0.10	10/10/16 10:35	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	10/10/16 10:35	
Methylene Chloride	mg/kg	<0.016	0.050	10/10/16 10:35	
n-Butylbenzene	mg/kg	0.011J	0.050	10/10/16 10:35	
n-Propylbenzene	mg/kg	<0.012	0.050	10/10/16 10:35	
Naphthalene	mg/kg	<0.040	0.25	10/10/16 10:35	
o-Xylene	mg/kg	<0.014	0.050	10/10/16 10:35	
p-Isopropyltoluene	mg/kg	<0.012	0.050	10/10/16 10:35	
sec-Butylbenzene	mg/kg	<0.012	0.050	10/10/16 10:35	
Styrene	mg/kg	<0.0090	0.050	10/10/16 10:35	
tert-Butylbenzene	mg/kg	<0.0095	0.050	10/10/16 10:35	
Tetrachloroethene	mg/kg	<0.013	0.050	10/10/16 10:35	
Toluene	mg/kg	<0.011	0.050	10/10/16 10:35	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	10/10/16 10:35	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	10/10/16 10:35	
Trichloroethene	mg/kg	<0.024	0.050	10/10/16 10:35	
Trichlorofluoromethane	mg/kg	<0.025	0.050	10/10/16 10:35	
Vinyl chloride	mg/kg	<0.021	0.050	10/10/16 10:35	
4-Bromofluorobenzene (S)	%	95	48-138	10/10/16 10:35	
Dibromofluoromethane (S)	%	99	53-165	10/10/16 10:35	
Toluene-d8 (S)	%	101	54-163	10/10/16 10:35	

LABORATORY CONTROL SAMPLE: 1408401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.5	99	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.6	103	70-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.4	96	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.4	96	70-133	
1,1-Dichloroethene	mg/kg	2.5	2.2	89	70-130	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.6	104	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.7	108	50-150	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.7	106	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.6	105	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.6	103	70-138	
1,2-Dichloropropane	mg/kg	2.5	2.6	103	70-130	
1,3-Dichlorobenzene	mg/kg	2.5	2.6	105	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	102	70-130	
Benzene	mg/kg	2.5	2.5	100	70-130	
Bromodichloromethane	mg/kg	2.5	2.6	106	70-130	
Bromoform	mg/kg	2.5	2.3	91	68-130	
Bromomethane	mg/kg	2.5	2.4	95	25-163	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

LABORATORY CONTROL SAMPLE: 1408401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.4	96	70-130	
Chlorobenzene	mg/kg	2.5	2.6	104	70-130	
Chloroethane	mg/kg	2.5	2.4	95	34-151	
Chloroform	mg/kg	2.5	2.4	97	70-130	
Chloromethane	mg/kg	2.5	1.9	75	52-130	
cis-1,2-Dichloroethene	mg/kg	2.5	2.4	94	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.6	103	70-130	
Dibromochloromethane	mg/kg	2.5	2.6	102	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.7	68	27-150	
Ethylbenzene	mg/kg	2.5	2.6	105	70-130	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.7	107	70-130	
m&p-Xylene	mg/kg	5	5.2	104	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.6	104	70-130	
Methylene Chloride	mg/kg	2.5	2.2	89	70-131	
o-Xylene	mg/kg	2.5	2.6	105	70-130	
Styrene	mg/kg	2.5	2.6	104	70-130	
Tetrachloroethene	mg/kg	2.5	2.4	98	70-130	
Toluene	mg/kg	2.5	2.5	102	70-130	
trans-1,2-Dichloroethene	mg/kg	2.5	2.3	93	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.6	103	70-130	
Trichloroethene	mg/kg	2.5	2.5	99	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.3	92	50-150	
Vinyl chloride	mg/kg	2.5	2.2	88	57-130	
4-Bromofluorobenzene (S)	%			99	48-138	
Dibromofluoromethane (S)	%			103	53-165	
Toluene-d8 (S)	%			102	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408402 1408403

Parameter	Units	40139780001		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.3	1.3	90	90	70-130	0	20			
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.5	99	98	70-130	1	20			
1,1,2-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.3	92	89	70-130	4	20			
1,1-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.3	1.3	91	90	64-133	1	20			
1,1-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.2	1.1	82	77	56-130	6	24			
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.4	1.4	1.6	1.6	109	106	70-130	2	20			
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.4	1.4	1.4	1.3	95	91	50-150	4	20			
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.4	1.4	1.5	1.4	99	94	70-130	5	20			
1,2-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.6	1.5	106	103	70-130	3	20			
1,2-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.4	103	97	70-138	6	20			
1,2-Dichloropropane	mg/kg	<0.025	1.4	1.4	1.4	1.5	95	100	70-130	5	20			
1,3-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.5	104	103	70-130	1	20			
1,4-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.6	1.6	105	105	70-130	0	20			

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Parameter	Units	40139780001		1408402		1408403		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	96	96	70-130	0	20		
Bromodichloromethane	mg/kg	<0.025	1.4	1.4	1.5	1.5	101	99	70-130	1	20		
Bromoform	mg/kg	<0.025	1.4	1.4	1.3	1.3	89	87	65-130	2	20		
Bromomethane	mg/kg	<0.070	1.4	1.4	1.3	1.2	87	84	11-163	3	21		
Carbon tetrachloride	mg/kg	<0.025	1.4	1.4	1.3	1.2	86	83	70-130	3	20		
Chlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.5	101	100	70-130	1	20		
Chloroethane	mg/kg	<0.067	1.4	1.4	1.1	1.1	73	77	17-151	6	20		
Chloroform	mg/kg	<0.046	1.4	1.4	1.4	1.4	96	93	70-130	3	20		
Chloromethane	mg/kg	<0.025	1.4	1.4	0.94	0.90	64	61	13-130	4	20		
cis-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.3	93	89	70-130	5	20		
cis-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.4	96	96	70-130	0	20		
Dibromochloromethane	mg/kg	<0.025	1.4	1.4	1.3	1.3	91	90	70-130	1	20		
Dichlorodifluoromethane	mg/kg	<0.025	1.4	1.4	0.90	0.79	61	54	10-150	13	21		
Ethylbenzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	95	70-130	3	20		
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.4	1.4	1.5	1.5	99	99	70-130	0	20		
m&p-Xylene	mg/kg	<0.050	3	3	2.9	2.9	99	97	70-130	2	20		
Methyl-tert-butyl ether	mg/kg	<0.025	1.4	1.4	1.5	1.4	104	95	70-130	9	20		
Methylene Chloride	mg/kg	<0.025	1.4	1.4	1.3	1.3	90	88	70-131	2	20		
o-Xylene	mg/kg	<0.025	1.4	1.4	1.5	1.5	103	101	70-130	1	20		
Styrene	mg/kg	<0.025	1.4	1.4	1.5	1.4	100	97	70-130	3	20		
Tetrachloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.3	91	87	70-130	5	20		
Toluene	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	97	70-130	0	20		
trans-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.2	1.3	83	86	70-130	5	20		
trans-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	94	70-130	4	20		
Trichloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.4	93	93	70-130	0	20		
Trichlorofluoromethane	mg/kg	<0.025	1.4	1.4	1.2	1.2	78	80	40-150	2	31		
Vinyl chloride	mg/kg	<0.025	1.4	1.4	1.2	1.1	82	78	26-130	5	20		
4-Bromofluorobenzene (S)	%						89	91	48-138				
Dibromofluoromethane (S)	%						95	96	53-165				
Toluene-d8 (S)	%						93	96	54-163				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

QC Batch: 237758 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Associated Lab Samples: 40139780004, 40139780005, 40139780006

METHOD BLANK: 1408794 Matrix: Solid  
Associated Lab Samples: 40139780004, 40139780005, 40139780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	10/11/16 08:33	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	10/11/16 08:33	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	10/11/16 08:33	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	10/11/16 08:33	
1,1-Dichloroethane	mg/kg	<0.018	0.050	10/11/16 08:33	
1,1-Dichloroethene	mg/kg	<0.018	0.050	10/11/16 08:33	
1,1-Dichloropropene	mg/kg	<0.014	0.050	10/11/16 08:33	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	10/11/16 08:33	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	10/11/16 08:33	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	10/11/16 08:33	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	10/11/16 08:33	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	10/11/16 08:33	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	10/11/16 08:33	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	10/11/16 08:33	
1,2-Dichloroethane	mg/kg	<0.015	0.050	10/11/16 08:33	
1,2-Dichloropropane	mg/kg	<0.017	0.050	10/11/16 08:33	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	10/11/16 08:33	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	10/11/16 08:33	
1,3-Dichloropropane	mg/kg	<0.012	0.050	10/11/16 08:33	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	10/11/16 08:33	
2,2-Dichloropropane	mg/kg	<0.013	0.050	10/11/16 08:33	
2-Chlorotoluene	mg/kg	<0.016	0.050	10/11/16 08:33	
4-Chlorotoluene	mg/kg	<0.013	0.050	10/11/16 08:33	
Benzene	mg/kg	<0.0092	0.020	10/11/16 08:33	
Bromobenzene	mg/kg	<0.021	0.050	10/11/16 08:33	
Bromochloromethane	mg/kg	<0.021	0.050	10/11/16 08:33	
Bromodichloromethane	mg/kg	<0.0098	0.050	10/11/16 08:33	
Bromoform	mg/kg	<0.020	0.050	10/11/16 08:33	
Bromomethane	mg/kg	<0.070	0.25	10/11/16 08:33	
Carbon tetrachloride	mg/kg	<0.012	0.050	10/11/16 08:33	
Chlorobenzene	mg/kg	<0.015	0.050	10/11/16 08:33	
Chloroethane	mg/kg	<0.067	0.25	10/11/16 08:33	
Chloroform	mg/kg	<0.046	0.25	10/11/16 08:33	
Chloromethane	mg/kg	<0.020	0.050	10/11/16 08:33	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	10/11/16 08:33	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	10/11/16 08:33	
Dibromochloromethane	mg/kg	<0.018	0.050	10/11/16 08:33	
Dibromomethane	mg/kg	<0.019	0.050	10/11/16 08:33	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	10/11/16 08:33	
Diisopropyl ether	mg/kg	<0.018	0.050	10/11/16 08:33	
Ethylbenzene	mg/kg	<0.012	0.050	10/11/16 08:33	

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

METHOD BLANK: 1408794 Matrix: Solid

Associated Lab Samples: 40139780004, 40139780005, 40139780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	10/11/16 08:33	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	10/11/16 08:33	
m&p-Xylene	mg/kg	<0.034	0.10	10/11/16 08:33	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	10/11/16 08:33	
Methylene Chloride	mg/kg	<0.016	0.050	10/11/16 08:33	
n-Butylbenzene	mg/kg	0.012J	0.050	10/11/16 08:33	
n-Propylbenzene	mg/kg	<0.012	0.050	10/11/16 08:33	
Naphthalene	mg/kg	<0.040	0.25	10/11/16 08:33	
o-Xylene	mg/kg	<0.014	0.050	10/11/16 08:33	
p-Isopropyltoluene	mg/kg	<0.012	0.050	10/11/16 08:33	
sec-Butylbenzene	mg/kg	<0.012	0.050	10/11/16 08:33	
Styrene	mg/kg	<0.0090	0.050	10/11/16 08:33	
tert-Butylbenzene	mg/kg	<0.0095	0.050	10/11/16 08:33	
Tetrachloroethene	mg/kg	<0.013	0.050	10/11/16 08:33	
Toluene	mg/kg	<0.011	0.050	10/11/16 08:33	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	10/11/16 08:33	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	10/11/16 08:33	
Trichloroethene	mg/kg	<0.024	0.050	10/11/16 08:33	
Trichlorofluoromethane	mg/kg	<0.025	0.050	10/11/16 08:33	
Vinyl chloride	mg/kg	<0.021	0.050	10/11/16 08:33	
4-Bromofluorobenzene (S)	%	107	48-138	10/11/16 08:33	
Dibromofluoromethane (S)	%	108	53-165	10/11/16 08:33	
Toluene-d8 (S)	%	108	54-163	10/11/16 08:33	

LABORATORY CONTROL SAMPLE: 1408795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.6	103	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.7	108	70-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.7	107	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.6	104	70-133	
1,1-Dichloroethene	mg/kg	2.5	2.1	82	70-130	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.4	97	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.2	89	50-150	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.6	104	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.5	101	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.8	112	70-138	
1,2-Dichloropropane	mg/kg	2.5	2.7	110	70-130	
1,3-Dichlorobenzene	mg/kg	2.5	2.5	98	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.4	97	70-130	
Benzene	mg/kg	2.5	2.7	109	70-130	
Bromodichloromethane	mg/kg	2.5	2.5	99	70-130	
Bromoform	mg/kg	2.5	2.2	87	68-130	
Bromomethane	mg/kg	2.5	2.5	99	25-163	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

LABORATORY CONTROL SAMPLE: 1408795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.6	103	70-130	
Chlorobenzene	mg/kg	2.5	2.6	104	70-130	
Chloroethane	mg/kg	2.5	2.6	103	34-151	
Chloroform	mg/kg	2.5	2.7	106	70-130	
Chloromethane	mg/kg	2.5	2.0	79	52-130	
cis-1,2-Dichloroethene	mg/kg	2.5	2.6	102	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.5	102	70-130	
Dibromochloromethane	mg/kg	2.5	2.3	92	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.5	59	27-150	
Ethylbenzene	mg/kg	2.5	2.7	106	70-130	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.6	106	70-130	
m&p-Xylene	mg/kg	5	5.4	107	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.7	107	70-130	
Methylene Chloride	mg/kg	2.5	2.5	101	70-131	
o-Xylene	mg/kg	2.5	2.7	106	70-130	
Styrene	mg/kg	2.5	2.5	99	70-130	
Tetrachloroethene	mg/kg	2.5	2.5	101	70-130	
Toluene	mg/kg	2.5	2.7	110	70-130	
trans-1,2-Dichloroethene	mg/kg	2.5	2.4	98	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.3	94	70-130	
Trichloroethene	mg/kg	2.5	2.7	107	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.2	90	50-150	
Vinyl chloride	mg/kg	2.5	2.2	87	57-130	
4-Bromofluorobenzene (S)	%			106	48-138	
Dibromofluoromethane (S)	%			105	53-165	
Toluene-d8 (S)	%			103	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408796 1408797

Parameter	Units	40139780005		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	93	93	70-130	0	20		
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.4	1.4	1.6	1.8	108	120	70-130	11	20		
1,1,2-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.6	1.6	109	111	70-130	1	20		
1,1-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.5	101	100	64-133	1	20		
1,1-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.2	1.2	82	78	56-130	4	24		
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.4	1.4	1.6	1.7	109	113	70-130	4	20		
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.4	1.4	1.6	1.7	108	112	50-150	4	20		
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.4	1.4	1.5	1.6	102	108	70-130	6	20		
1,2-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.6	1.6	107	111	70-130	4	20		
1,2-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.6	1.7	107	115	70-138	7	20		
1,2-Dichloropropane	mg/kg	<0.025	1.4	1.4	1.6	1.6	108	107	70-130	1	20		
1,3-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.6	104	106	70-130	2	20		
1,4-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.6	104	106	70-130	2	20		

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408796												1408797	
Parameter	Units	40139780005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Benzene	mg/kg	<0.025	1.4	1.4	1.5	1.6	102	107	70-130	4	20		
Bromodichloromethane	mg/kg	<0.025	1.4	1.4	1.4	1.5	98	102	70-130	4	20		
Bromoform	mg/kg	<0.025	1.4	1.4	1.4	1.4	94	96	65-130	2	20		
Bromomethane	mg/kg	<0.070	1.4	1.4	1.4	1.4	93	97	11-163	3	21		
Carbon tetrachloride	mg/kg	<0.025	1.4	1.4	1.3	1.2	91	84	70-130	8	20		
Chlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.5	104	104	70-130	0	20		
Chloroethane	mg/kg	<0.067	1.4	1.4	1.3	1.3	90	88	17-151	3	20		
Chloroform	mg/kg	<0.046	1.4	1.4	1.5	1.5	105	102	70-130	2	20		
Chloromethane	mg/kg	<0.025	1.4	1.4	1.1	1.0	73	69	13-130	5	20		
cis-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.5	1.5	102	102	70-130	0	20		
cis-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.5	98	100	70-130	3	20		
Dibromochloromethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	94	96	70-130	2	20		
Dichlorodifluoromethane	mg/kg	<0.025	1.4	1.4	0.88	0.61	60	42	10-150	36	21	R1	
Ethylbenzene	mg/kg	<0.025	1.4	1.4	1.5	1.5	102	102	70-130	0	20		
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.4	1.4	1.5	1.5	104	99	70-130	5	20		
m&p-Xylene	mg/kg	<0.050	2.9	2.9	3.0	3.1	103	105	70-130	1	20		
Methyl-tert-butyl ether	mg/kg	<0.025	1.4	1.4	1.6	1.7	107	114	70-130	6	20		
Methylene Chloride	mg/kg	<0.025	1.4	1.4	1.4	1.5	97	102	70-131	5	20		
o-Xylene	mg/kg	<0.025	1.4	1.4	1.5	1.6	102	106	70-130	5	20		
Styrene	mg/kg	<0.025	1.4	1.4	1.4	1.5	98	99	70-130	1	20		
Tetrachloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.4	94	96	70-130	2	20		
Toluene	mg/kg	<0.025	1.4	1.4	1.6	1.5	107	105	70-130	2	20		
trans-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	92	70-130	6	20		
trans-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.5	95	100	70-130	5	20		
Trichloroethene	mg/kg	<0.025	1.4	1.4	1.5	1.4	100	98	70-130	2	20		
Trichlorofluoromethane	mg/kg	<0.025	1.4	1.4	1.4	1.1	92	72	40-150	24	31		
Vinyl chloride	mg/kg	<0.025	1.4	1.4	1.2	1.1	83	77	26-130	9	20		
4-Bromofluorobenzene (S)	%						103	98	48-138				
Dibromofluoromethane (S)	%						102	100	53-165				
Toluene-d8 (S)	%						103	97	54-163				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV  
Pace Project No.: 40139780

QC Batch: 238257 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
Associated Lab Samples: 40139780001, 40139780002, 40139780003, 40139780004, 40139780005, 40139780006

METHOD BLANK: 1411815 Matrix: Solid  
Associated Lab Samples: 40139780001, 40139780002, 40139780003, 40139780004, 40139780005, 40139780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0040	0.013	10/17/16 11:12	
2-Methylnaphthalene	mg/kg	<0.0050	0.017	10/17/16 11:12	
Acenaphthene	mg/kg	<0.0039	0.013	10/17/16 11:12	
Acenaphthylene	mg/kg	<0.0033	0.011	10/17/16 11:12	
Anthracene	mg/kg	<0.0057	0.019	10/17/16 11:12	
Benzo(a)anthracene	mg/kg	<0.0032	0.011	10/17/16 11:12	
Benzo(a)pyrene	mg/kg	<0.0025	0.0084	10/17/16 11:12	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0094	10/17/16 11:12	
Benzo(g,h,i)perylene	mg/kg	<0.0020	0.0068	10/17/16 11:12	
Benzo(k)fluoranthene	mg/kg	<0.0025	0.0084	10/17/16 11:12	
Chrysene	mg/kg	<0.0034	0.011	10/17/16 11:12	
Dibenz(a,h)anthracene	mg/kg	<0.0022	0.0074	10/17/16 11:12	
Fluoranthene	mg/kg	<0.0052	0.017	10/17/16 11:12	
Fluorene	mg/kg	<0.0041	0.014	10/17/16 11:12	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0022	0.0073	10/17/16 11:12	
Naphthalene	mg/kg	<0.0084	0.028	10/17/16 11:12	
Phenanthrene	mg/kg	<0.012	0.039	10/17/16 11:12	
Pyrene	mg/kg	<0.0045	0.015	10/17/16 11:12	
2-Fluorobiphenyl (S)	%	74	26-130	10/17/16 11:12	
Terphenyl-d14 (S)	%	83	10-130	10/17/16 11:12	

LABORATORY CONTROL SAMPLE: 1411816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.25	74	48-130	
2-Methylnaphthalene	mg/kg	.33	0.24	73	49-130	
Acenaphthene	mg/kg	.33	0.23	70	54-130	
Acenaphthylene	mg/kg	.33	0.23	70	56-130	
Anthracene	mg/kg	.33	0.27	80	70-130	
Benzo(a)anthracene	mg/kg	.33	0.24	72	58-130	
Benzo(a)pyrene	mg/kg	.33	0.29	88	58-130	
Benzo(b)fluoranthene	mg/kg	.33	0.26	78	50-130	
Benzo(g,h,i)perylene	mg/kg	.33	0.25	74	39-130	
Benzo(k)fluoranthene	mg/kg	.33	0.30	90	57-130	
Chrysene	mg/kg	.33	0.30	89	64-130	
Dibenz(a,h)anthracene	mg/kg	.33	0.25	75	44-130	
Fluoranthene	mg/kg	.33	0.26	79	59-130	
Fluorene	mg/kg	.33	0.23	69	56-130	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.27	81	45-130	
Naphthalene	mg/kg	.33	0.24	72	46-130	

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

LABORATORY CONTROL SAMPLE: 1411816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.26	77	56-130	
Pyrene	mg/kg	.33	0.26	79	59-130	
2-Fluorobiphenyl (S)	%			70	26-130	
Terphenyl-d14 (S)	%			76	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1411817 1411818

Parameter	Units	40139886005		MSD		MSD		% Rec		Max		Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	
1-Methylnaphthalene	mg/kg	<4.7 ug/kg	.39	.39	0.22	0.30	58	76	41-130	28	24	R1
2-Methylnaphthalene	mg/kg	<5.8 ug/kg	.39	.39	0.22	0.29	55	75	42-130	30	25	R1
Acenaphthene	mg/kg	<4.5 ug/kg	.39	.39	0.22	0.28	56	72	49-130	25	27	
Acenaphthylene	mg/kg	<3.9 ug/kg	.39	.39	0.22	0.28	56	72	52-130	26	26	
Anthracene	mg/kg	<6.7 ug/kg	.39	.39	0.26	0.32	66	82	61-130	21	29	
Benzo(a)anthracene	mg/kg	3.9J ug/kg	.39	.39	0.23	0.28	59	70	45-130	17	28	
Benzo(a)pyrene	mg/kg	<2.9 ug/kg	.39	.39	0.26	0.31	65	78	39-130	18	34	
Benzo(b)fluoranthene	mg/kg	3.4J ug/kg	.39	.39	0.26	0.30	67	77	30-130	14	43	
Benzo(g,h,i)perylene	mg/kg	<2.4 ug/kg	.39	.39	0.24	0.29	62	73	24-130	17	34	
Benzo(k)fluoranthene	mg/kg	<2.9 ug/kg	.39	.39	0.29	0.35	73	89	41-130	19	32	
Chrysene	mg/kg	<3.9 ug/kg	.39	.39	0.28	0.33	72	84	46-130	16	37	
Dibenz(a,h)anthracene	mg/kg	<2.6 ug/kg	.39	.39	0.25	0.30	65	76	33-130	16	34	
Fluoranthene	mg/kg	<6.1 ug/kg	.39	.39	0.26	0.31	65	79	41-130	19	25	
Fluorene	mg/kg	<4.8 ug/kg	.39	.39	0.22	0.28	56	71	49-130	24	30	
Indeno(1,2,3-cd)pyrene	mg/kg	<2.6 ug/kg	.39	.39	0.26	0.32	68	82	30-130	19	28	
Naphthalene	mg/kg	<9.8 ug/kg	.39	.39	0.21	0.29	54	75	39-130	33	26	R1
Phenanthrene	mg/kg	<13.6 ug/kg	.39	.39	0.25	0.31	64	79	47-130	20	26	
Pyrene	mg/kg	<5.3 ug/kg	.39	.39	0.25	0.30	64	77	37-130	18	30	
2-Fluorobiphenyl (S)	%						56	73	26-130			
Terphenyl-d14 (S)	%						65	78	10-130			

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

QC Batch: 238063

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40139780001, 40139780002, 40139780003, 40139780004

SAMPLE DUPLICATE: 1410339

Parameter	Units	40139711003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	14.4	0	10	

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### QUALITY CONTROL DATA

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

QC Batch: 238066

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40139780005, 40139780006

SAMPLE DUPLICATE: 1410340

Parameter	Units	40139780005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.1	15.2	1	10	

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## QUALIFIERS

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

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### 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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1610-0023-0001 1515 E. NOAH AV

Pace Project No.: 40139780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139780001	SB-1 (2-4)	EPA 3050	237642	EPA 6010	237750
40139780002	SB-1 (14-16)	EPA 3050	237642	EPA 6010	237750
40139780003	SB-2 (2-4)	EPA 3050	237642	EPA 6010	237750
40139780004	SB-2 (16-18)	EPA 3050	237642	EPA 6010	237750
40139780005	SB-3 (2-4)	EPA 3050	237642	EPA 6010	237750
40139780006	SB-3 (10-12)	EPA 3050	237642	EPA 6010	237750
40139780001	SB-1 (2-4)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780002	SB-1 (14-16)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780003	SB-2 (2-4)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780004	SB-2 (16-18)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780005	SB-3 (2-4)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780006	SB-3 (10-12)	EPA 3546	238257	EPA 8270 by SIM	238282
40139780001	SB-1 (2-4)	EPA 5035/5030B	237639	EPA 8260	237640
40139780002	SB-1 (14-16)	EPA 5035/5030B	237639	EPA 8260	237640
40139780003	SB-2 (2-4)	EPA 5035/5030B	237639	EPA 8260	237640
40139780004	SB-2 (16-18)	EPA 5035/5030B	237758	EPA 8260	237764
40139780005	SB-3 (2-4)	EPA 5035/5030B	237758	EPA 8260	237764
40139780006	SB-3 (10-12)	EPA 5035/5030B	237758	EPA 8260	237764
40139780001	SB-1 (2-4)	ASTM D2974-87	238063		
40139780002	SB-1 (14-16)	ASTM D2974-87	238063		
40139780003	SB-2 (2-4)	ASTM D2974-87	238063		
40139780004	SB-2 (16-18)	ASTM D2974-87	238063		
40139780005	SB-3 (2-4)	ASTM D2974-87	238066		
40139780006	SB-3 (10-12)	ASTM D2974-87	238066		

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(Please Print Clearly)

Company Name: **KEY Engineering**  
 Branch/Location: **Wilkes-Barre**  
 Project Contact: **Ken Weir**  
 Phone: **4142248300**  
 Project Number: **1010-0023-0001**  
 Project Name: **1515 E. North Ave**  
 Project State: **PA**  
 Sampled By (Print): **Chelsea Ayres**  
 Sampled By (Sign): *Chelsea Ayres*  
 PO #: \_\_\_\_\_  
 Regulatory Program: \_\_\_\_\_



# CHAIN OF CUSTODY

Preservation Codes: A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

Y/N	Filtered?	Preservation (Code)
N	N	N
F	F	A
N	N	A
N	N	A

### Analyses Requested

Matrix Codes	DATE	TIME	MATRIX	Lead
W = Water DW = Drinking Water C = Charcoal O = Oil S = Soil Sl = Sludge	10/6	900	S	X
A = Air B = Biota GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	10/6	915	S	X
	10/6	930	S	X
	10/6	945	S	X
	10/6	1000	S	X
	10/15	1015	S	X

Quote #: \_\_\_\_\_  
 Mail To Contact: **Ken Weir**  
 Mail To Company: **KEY Engineering**  
 Mail To Address: **735 N. West St Ste 500 Wilkes-Barre, PA 18702**  
 Invoice To Contact: **Chelsea Ayres**  
 Invoice To Company: **KEY Engineering**  
 Invoice To Address: \_\_\_\_\_

CLIENT COMMENTS: **1-40gag A 1-40gag A 1-40mL VF**

LAB COMMENTS (Lab Use Only): \_\_\_\_\_

Profile #: \_\_\_\_\_

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want): \_\_\_\_\_

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: **Mary Fanning** 10/7/10 1715  
 Relinquished By: **AS Logistics** 10/8/10 0735

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: **Mary Fanning** 10/7/10 1105  
 Received By: **Rati Johnson** 10/8/10

Receipt Temp = **RO1** °C  
 Sample Receipt pH \_\_\_\_\_  
 OK / Adjusted \_\_\_\_\_  
 (Seal) Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: KEY

Project # WO#: 40139780

Courier: Fed Ex UPS Client Pace Other: CS Logistics
Tracking #:



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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 10/8/16
Initials: KJ

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of inspection items and checkboxes. Items include Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, etc.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: J. M. O. Date: 10-8-16